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SEQUENCE LISTING

<110> Vogeli, Gabriel
Wood, Linda S.

<120> Novel G Protein-Coupled Receptors

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 <212> DNA

<213> Homo sapiens

<400> 22

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<210> 23

<211> 692

<212> DNA

<213> Homo sapiens

<400> 23

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<210> 24

<211> 669

<212> DNA

<213> Homo sapiens

<400> 24

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 <212> DNA
 <213> Homo sapiens

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 aataaaatcc aaatttaatc catcacattg acaatgatta aaattaaatt taaagcagtg 180
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<210> 26
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 26
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<210> 27
 <211> 622
 <212> DNA
 <213> Homo sapiens

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<210> 28
 <211> 684
 <212> DNA
 <213> Homo sapiens

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<210> 29
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 <212> DNA
 <213> Homo sapiens

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<210> 30
 <211> 642
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 <213> Homo sapiens

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<210> 31
 <211> 592
 <212> DNA
 <213> Homo sapiens

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<210> 33
 <211> 695
 <212> DNA
 <213> Homo sapiens

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<211> 655
<212> DNA
<213> Homo sapiens

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<210> 35
<211> 506
<212> DNA
<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 39
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 <212> DNA
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<213> Homo sapiens

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<211> 617

<212> DNA

<213> Homo sapiens

<400> 41

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<210> 42

<211> 653

<212> DNA

<213> Homo sapiens

<400> 42

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atttctttat tgagtagtgg gaccgtctag actgtgtgct gactcttact aaagtcattt 180

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caactatat gtggcaatta aaacttaaaa aaaaaagcct gaattggctc ttagaaatat 420
ttaatcaagt agtatccact agaacttaac atttcatcct gtggatcatc acacacaaaa 480
taccaacccc tgctgtcatt cagggctcta gcaggaacag gtagcatcaa ataggataat 540
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<212> DNA
<213> Homo sapiens

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aatgattagt tgcaacatgg aatctgaaac cacatcatga actatttgta atctggcata 540
ttaagatcta tttatctatc ttgcactttg aatgggatcc ttggtcatg catctttttg 600
taacatgaat catctcaaac acgttggttc attgagttat gc 642

<210> 44
<211> 674
<212> DNA
<213> Homo sapiens

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cccttcagg gctgctgaag atcatatgac tgatcatcaa ctttgatttt tgacccatct 660
gtcaacaacg acac 674

<210> 45
<211> 609
<212> DNA
<213> Homo sapiens

<400> 45
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tttttttaaa aaaagaatct aagccagaat gaggttactg ctaggcaaa gaagaagaca 480
gtcatcaca ggtgagtgt acacgttttt catatgtaca aattaagcag cctgaacaa 540
aaggcactca aaaggtaaaa gaataccagt ccaccctct gatttgtcaa atcaaagttc 600
tgtcaactg 609

<210> 46
<211> 522
<212> DNA
<213> Homo sapiens

<400> 46
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aaattacaaa acaaccattt acatagcatt tacattatat tagttataag taatctagag 120
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tgagggactt gaacatagaa ggtttttgga gtccacagag gtcctgaaac caatttcccc 240
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gcatgagtct cataaatata atgctcacag aaaaaagcaa gttgcagaag ggtaaatacg 360
gttgatatat aaagggtgcta aacacagaac tatttaatga tatacggatg cagtaaaagt 420
ataagaaatg tatgcaaact tacttaaatt cagggtgttg gttacttga gtaaggcgaa 480
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<210> 47
 <211> 681
 <212> DNA
 <213> Homo sapiens

<400> 47
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 ctcttatttt aaactcactt aacatcaata taaaagtgtc ctttgagca ggacactttt 180
 aggaggtctt gagccccctc cccaccagca ctcatctgtg tacaacaag ttgttgctag 240
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 ctacactca ccagaggcct ccatacttg taggccacac tggctgcat caagagctgg 480
 cagtcctgag aaagcagaaa gcagatggtg aggtagaagg agcgagtgat atggaagggc 540
 acaaaacaga ggggtgaagag gccacacacc agtaggatgg tccggatgga cctggctcgg 600
 gctgtgttgc ctgtcctcat gaggttctcc tctggcttga tcaggctcct gaccatcagt 660
 gaatagcaca ccaaagtgac c 681

<210> 48
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 48
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 ccgagcccag cacagctgcc ctctggacc tgcggacccc agccgagccc ctctctgagt 120
 tccacaggcg cagcccccg gcggtcgggc ggaggggtcc ccggggcggt gccagggcgc 180
 aatcctggag ggcgccggg aggaggagt gcgcgcggcc atgcacaccg tggctacgtc 240
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 ctctctcgcg gcgtgatgc tgctgggcct ggtggggaac tcgctggtca tctacgtcat 420
 ctgccgccac aagccgatgc ggaccgtgac caacttctac atcggtagt gcgggccgct 480
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<210> 49
 <211> 695
 <212> DNA
 <213> Homo sapiens

<400> 49

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gtgataaaaa taattttcaa atgagagcag cccagcactt ataaagtggg taatgtgcac 660
caagtactgc ttttaagttat cctgcagtat tattg 695

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<210> 50
<211> 586
<212> DNA
<213> Homo sapiens

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<400> 50
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cctcttgac cacctactcc acatgtaaga ccttctacat tttggttgtg ttgttcatca 180
tcttcacaca ttgcccaca agaacatcca gaagccatca tcacagcacc actgccagg 240
tcatcacagc tcaactcttct tcctcaacco cagcctccat gagaggcaaa ggcgttaac 300
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ttttatcatc tgctggctgc ctctctttat tgtttctctg ccagccaaga taccaccata 480
ttaagacatc ttcattctgc tgagcttttt tttttttttc tttttgatac caagtctcac 540
tcttgctctc caggttagaa tgcaatggta caatctcagc tcaactg 586

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<210> 51
<211> 234
<212> DNA
<213> Homo sapiens

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<400> 51
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gaagaagcag aattcaagct gtaactgcct gttggagaga gccaaccctc ggcctctgtc 180
ctcgaaaggc agcaccaaag ttttccaagt ggaatcaaat gtgcaggag gatc 234

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<210> 52
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 52
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 agacaatata cataataagt tatgtaatag cttacaaagt gacagtacct ttgggaaaaa 180
 ggaaagggtat tataggataa agatgatcaa tgaacaggaa gtttgagttt ttaaattgag 240
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 gccctgca 308

<210> 53
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 53
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 cagatggaga tgatgcagat ggagatgatg cagatggaga gcagtggcca tgcagagtct 180
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 aacctgctgt gaactgctgg ctgctgccc taacttttcc ctgtccctat ttccactcct 540
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<210> 54
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 54
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 tccagaatat taatttagtt ctattcattg actattcttt ggttttgctg ttgaattttt 480
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<210> 55
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 55
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 ctgcctaaac cactcctgt actttctttc aaggggggca aaatttgagt caggctcctc 180
 cagaaactga ggcagaacaa gttgggtgag catccagctg ggaggaagag atgc 234

<210> 56
 <211> 585
 <212> DNA
 <213> Homo sapiens

<400> 56
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<210> 57
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 57
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 ttttgagggg acacaattta accctaatag accacaatta aaatggaatg caataataaa 180
 aactaacttt tattgagcat tcgtagtctg agtttggcat tgctcaagag tgccttacat 240

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 agccaatgcc caaacaatgg caggagact aaggcatcct gttcctgggg agatgtggga 660

<210> 58
 <211> 643
 <212> DNA
 <213> Homo sapiens

<400> 58
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<210> 59
 <211> 670
 <212> DNA
 <213> Homo sapiens

<400> 59
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 tcaagataaa ataatttttt ccatttattg acccattttt agcttacaat ttgttttcta 360
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<210> 60
 <211> 662
 <212> DNA
 <213> Homo sapiens

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 cc 662

<210> 61
 <211> 603
 <212> DNA
 <213> Homo sapiens

<400> 61
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ccc 603

<210> 62
<211> 427
<212> DNA
<213> Homo sapiens

<400> 62
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<210> 63
<211> 550
<212> DNA
<213> Homo sapiens

<400> 63
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gagtcgctgt 550

<210> 64
<211> 556
<212> DNA
<213> Homo sapiens

<400> 64
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<212> DNA
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<213> Homo sapiens

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<400> 84
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 <212> DNA
 <213> Homo sapiens

<400> 87

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<212> DNA

<213> Homo sapiens

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<210> 95
<211> 662
<212> DNA
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<212> DNA
<213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<211> 402
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 <212> DNA
 <213> Homo sapiens

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<211> 193
<212> DNA
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<212> DNA
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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 482

<212> DNA

<213> Homo sapiens

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gcttatccat tctttcttgt ttacagaaag acttaatttt ctgtctcata tctctgtcct    180
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ttgtgaaaaa gattttctca accacaaggg tgatgtaact ttaggcctgt gttttctctc    300
tcacacacac aaaatatttg atatgagtga gattttaaaa aattggtttt taaatgtgat    360
gaaaagagtg tccttttcac cagaacaaaa caacccttaa tgctgaagcc tccttcccga    420
tatgggtggc ttccaaatat gaagaaatct gtgcattggg ccacaggctc cagacaaagt    480

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482

<210> 122
 <211> 568
 <212> DNA
 <213> Homo sapiens

<400> 122
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 acctcacaca gcctgagtgg gcctgagata ggctgagggg cctaagcttc aattgcataa 120
 gcagggctag gtcactccag ttaccaaaga cagaaacaga tagtccagag ccgtccaggg 180
 gatgctagcc actgcccagg agatgatcag agaacacaca acagaaatca gaaaatgtag 240
 tacaagaaga atttgctgat aggtgcaatc gcctcagcaa ggcacaggaa actcaactca 300
 gaaggcagtc tgtctgtcat ccaccaattc tctgggtcaa gtctgatgtg cactcataaa 360
 gtaaaaatgc actgttattg tgactgagaa aaaaaataaa gctaaaaggt aagtgcctat 420
 aaaataagat ttactaatg caaacaaaag cctaagaa gtgtgggttg agcccagtggt 480
 cctcctctat tagcaccaac aatggatagg tggttgagtc tgtcaaatg cctctggggt 540
 tacagaaatg aaagcttgggt ctgtgcc 568

<210> 123
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 123
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 gctaaattta aatgagaaaa agagcttggt gcaacttggt atccagttgg atccagtttt 180
 ctctgctggt ccattttttg tatccctttt gagtttgc tcttttttaa cattttttgg 240
 tatagcagat ttttattttt tggtagattt gtgcacataa acttcttggt gtggaggaga 300
 gggttaaattt taatagctaa tgggacaaag gtatataggg atatataggt acaaccctag 360
 ctcttattct ttcttttcct ccatagtatt ctggtgatgt agggataaaa ttt 413

<210> 124
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 124
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 cttaggtttc ttctctactt ccttttttaa ttgaagagtt taatgcatgt atctgtgtgt 120
 ttgcttgaaa aaaaacacca agtataacat gttctatcta tgaatacttc tggccattaa 180
 ctcaaaaggt actatattac agacagaaaa gcaccagaaa gcaatcaggg acttcatcta 240

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agaggtagga cagcatagtt ggtaaaaata cagaccctgg aggcaaactg cctgggcttg 300
aatcccagct ttattacttt gggaaaacta cttatcttct ttacttggtt tggatatcat 360
gtctgtgaaa tggaagtaat aataatcctc tcatagcatt gttgtgaggt ttcaatagat 420
gaagtgaaga ctttagaagg gcacatgata agaattatat aagggttacc tattattgct 480
atccaatttg tcatagcaag ctaagggacc ttgggcaagt tactc 525

<210> 125
<211> 575
<212> DNA
<213> Homo sapiens

<400> 125
actggtagaa tgggctcatt caagcatgta acgcccttaa atttttcatt taaattttct 60
gtgccttaga aatgaacttt acagtaatct ttgctttcta aaaataaatg tgtttcttgt 120
taagcattta gtctcatcac aaattctggt ttgaaaaaaa acaacagaaa atagtgaatg 180
agaagggtag gagacttagg actcagcgaa ttctatctca gtgccaagac tttaaaactg 240
ggaataaatg ctacttctcc atgacctggg tctgataatt tgtctgcagg aacactgttt 300
ctagaggggtg gtgtgtgtaca gtgggaggaa tggactttgg agtgagatcc atgttcaaat 360
cccaagtcac ttacctctc tgatcctcag ttctctcatc tgtaaaatga ccataatcaa 420
caccatctcg aagatttgtg gtgacaacac agcatttact tctgtctgta tacttcccat 480
ttcctcttgt agagacagaa ttttccactt tattttaatc tataattatg taatcccat 540
taaaaatcac ccttcgactt tcagttccac aaggc 575

<210> 126
<211> 638
<212> DNA
<213> Homo sapiens

<400> 126
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tggatccagt actccaaggg tgatctgacc tcacagagca cagtgcctgg ggagtgcctt 120
taatctggac ttggaattcc atcatacaga ggccaagtct ctgaccatga tgttctctct 180
gtgtaactgg ggctgctgaa acccaagtat tgtcagccag tgccgggtctc cagccatgct 240
tgtgtctttt aagaagtgac agtaactgct atttgtggag atggctattc atagggactc 300
cttttctttg cctgacagag gccagtggt ctaagctcta agaggggctc tgatgccagc 360
atgtgagtca cactcacttg ctactgttct tttccagagt tttgggccac ttgttgctgc 420
acatcactac ctctctccc cctgccagc ttgcattgtc gcccttcccc atctaccatg 480
ctgtccttga acataaggcg cttctctgca ttccatgtgt ctactttgta gttatgtgct 540
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caatagatgg gtttaatat tcttatgatt ggttcttg 638

<210> 127
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 127
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 cgggtattctg gctaccatag ctatcttgct ctttttgttt ataattatga tatgttccaa 180
 aaaggagtaa aacgtaatac aagaagataa aaatacattt accattaagt aagaaaaaag 240
 acaagggaga agagaataag aaaatgagtc aggagtggga tttatacaaa aaattagtga 300
 gtccacttta cttcctggaa gtggatggtg agcttttctt gccagccttc ttgaagaggg 360
 aagcactgtc agttatgttg tagtgtgtcg atctagtaaa atccaactgg ttgttcagat 420
 acctagatga atattcttga taggaagatg aaaaaaaaaat ttcttccaaa gtcttcatgg 480
 atacataaag tgtataatga gcaaaacctt tgacatgttt acagtaaacc caatggtgtg 540
 tttcacctgg cctttctctt ctttcgttta ctg 573

<210> 128
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 128
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 gggcagaggt tottctctac tgcccgaaac tgcttccgga cagctccagg gttccctcag 180
 gaagccgccc tocaccttca cctcaggcat gtctgcaga gccctctgga gaaccagctt 240
 caggttctgc ctattttgac gctgcctaaa ggagcccacg aagaagtaaa tgacgggggtt 300
 ggcactaccg tttagaggag acaggaaaat ggaaactaga tggacatgac agaaaatgac 360
 ttccaaatcc aggtgtatcc cagtagacag agcccaccga atgccgaagg gcaggctgcg 420
 gagtaggaag actagcactg tgagcaggat cgtcacgtac a 461

<210> 129
 <211> 655
 <212> DNA
 <213> Homo sapiens

<400> 129
 tcactggaga agcctagtca cctgggcaga atatcttgaa cctaggataa gttcatccat 60
 ggtagaccaa ctctgtgatg gagttatgag atggggaagg agggctctgg accatgcaac 120
 aggatttccc ccaaagctca gcactccaag gagcacatca gcacaggaa tgtctgctgg 180
 aagccagcgg ctgtggagga ggggcagtag ccactgagcc taggttcaga gcttcaatcc 240

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ccttcagtcc tcttgactgg caagagaaca gcagagtcta ttagagagga attaccattc 300
caagcaagaa tttaggccac atctttcaga atgagaccat tgagttgagg tccacttagc 360
agggaaagtg gcttcagggt gtggttgact gtttaattac accctgctgt tcaactctctt 420
caccattgta tgcaaagtac agcatctctg acaagcaagg aacactggct tgccccacag 480
tggctggctg gggttgatga aatgagcaac gaagtagcag tgtgcccagt ccaagcagag 540
actacctcta gcaggggcat gacattcccc aagagagggc atctccttta gcctggacct 600
tggagcaaaa gcaacccatg gatcagacca atagacaaca tgcagccctc atcta 655

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<210> 130
<211> 657
<212> DNA
<213> Homo sapiens

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<400> 130
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ttccaacctt gcctcctccg aactatagtg aaaagataat tttccacatc cctttgttca 120
ggaaatgagg acacagtggg gtcattgggt tttgattgtc cacttgaaa aggttaaaac 180
ctgtcctaca gtcattgatga cttcagttcc atttaagtgg ggtcctgtct ctctcactct 240
ccaccgactg tacctttact ataacatggc cttatataga tagctttgag taagtgtgtg 300
ttaaattgact gccaagtga atggaaaatt gagaagggcc tccagcactg gagtatggaa 360
aggagcactg ggttcattga ctctttggat ttctcccttg ctacgtaagt ccgttcccta 420
aaggacatgg atcttgacag tgttggaatc ttcagaaata attgcaatac cagaagttat 480
ttaagatttt accattttca aagtatttgt acgtaacact ttcatatgtt tttgtttcct 540
agctacctca gtttccctgt tggcttgagc agattagtgt aaagaggtgg tgacatcagg 600
ggaaacaggt ttactcagcc atcttcatta ccatattatc actgacttga ggctcct 657

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<210> 131
<211> 566
<212> DNA
<213> Homo sapiens

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<400> 131
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actactgctg tctggctcca ctcgaggga gccaggtaac ctgtgttagg ccgcgctttt 180
cctggcggcc ttgtaaatct gttagtacat gaaaagcatg acgcacatgg ggattaggat 240
gccaatgcgg tggagtaa atcgtgtagcca aagtcttgac tgaccaagca caccttatca 300
tcgtttacat tctgagcccg accaaaaatg gtaggtaaag tgacaaaggc ggaaagaagg 360
cagacagaaa gaatcatctt cgtcatgcat ttccccttct gcctcatagg gtacgtgaga 420

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 ccccccgatga ggtcgggtgac actgat 566

<210> 132
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 132
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 aggggttctga gacagaggctc tccaggaaaa aaaaaaagaa cctgacttac tggataaaca 120
 agtcttttagt ttaaaaaaca acaaaaaact gtatacacat atatatataa aatcaggtag 180
 tataaagaaa aacagaactc cagagattcc tgggtcacag aaggggaaag ggctgttcaa 240
 gaaagtgaag ttgaactaac tgaaaataca gctatcttta tattggaagg acagtcagga 300
 agtcaacaga taaggcctaa actgcataaa gcaggaaaca gcagactaaa gacattatta 360
 agaaatatgg aacacaacca aaagaaatag caaaaacaat gaaaagtgaac tgtttttcat 420
 aagtgaggca ggggaagaga aggggttatt tttttcccca ttatatgtct ttaagaacta 480
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<210> 133
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 133
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 attcacagct atgacttatt aacagaggga taccgaagca taatcagcaa aaggaaaaga 180
 tgcattgagga aaagtctgaa gaaaccaggg acagcttcca agattctttt ccagtgaaa 240
 ttacacagga tatgcttaat tctttcagca aggaattgtg acaagacatg tgaaacacta 300
 cctgccaggg aagttcccta gtgactcagt gccatgggtt attattgggg actggtcacg 360
 tatgccctct ttgcctcata cttagagaat tccagttcca gaaggaaagc aggtattcag 420
 tataagccat attatttgca tagaccagtt taggatcaag gaattgtagg aagcttttca 480
 aaatctaaga ccccaaatac cagccaagag ccagccttgc aagcaggaca ttttaagagt 540
 agcagtcttg ggtctgctgt attaactctt ttctgcacag aaatgatagt atgacatcta 600
 agttattatt atcaagggac cgagaaatgc atgtttttta ggctagggaa g 651

<210> 134
 <211> 966

<212> DNA

<213> Homo sapiens

<400> 134

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atgaaccaga ctttgaatag cagtgggacc gtggagtcag ccctaaacta ttccagaggg      60
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gggatggcag gcaacagcat ggtgatctgg ctgctgggct ttcgaatgca caggaacccc      180
ttctgcatct atatacctcaa cctggcgcca gccgacctcc tcttctcttt cagcatggct      240
tccacgctca gcctggaaac ccagcccctg gtcaatacca ctgacaaggt ccacgagctg      300
atgaagagac tgatgtactt tgcctacaca gtgggcctga gcctgtgac ggccatcagc      360
accacgcgct gtctctctgt cctcttcctt atctgggtca agtgtcaccg gccagggcac      420
ctgtcagcct ggggtgtgtg cctgctgtgg aactctgtc tcctgatgaa cgggttgacc      480
tcttctctct gcagcaagtt cttgaaattc aatgaagatc ggtgcttcag ggtggacatg      540
gtccaggccg ccctcatcat gggggtctta accccagtga tgactctgtc cagcctgacc      600
ctctttgtct gggtgoggag gagctcccag cagtggcggc ggcagccac acggctgttc      660
gtggtgtgtc tggcctctgt cctggtgttc ctcatctgtt ccctgcctct gagcatctac      720
tggtttgtgc tctactggtt gagcctgccg cccgagatgc aggtcctgtg cttcagcttg      780
tcacgcctct cctcgctcgt aagcagcagc gccaaccccg tcattctactt cctggtgggc      840
agccggagga gccacaggct gccaccagg tccctgggga ctgtgtcca acaggcgctt      900
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<210> 135

<211> 198

<212> PRT

<213> Homo sapiens

<400> 135

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Lys Lys Gln Val Ser Leu Thr Glu Gln Glu Thr Ile Leu His Phe Phe
1          5          10          15
Lys Trp Gly Lys Thr Glu Gln Leu His Glu Lys Tyr Asn Ser Leu Tyr
20          25          30
Ile Lys Leu Ile Gly His Glu Leu Ala Leu Gln Val Glu His Asn Asn
35          40          45
Ser Arg Ser Lys Ser Arg Leu Pro Ser Lys Ser Cys Ser Ile Arg Arg
50          55          60
Phe Phe Ile Gln Asp Ala Lys Ile Ile Lys His Asn Asn Cys Ile Glu
65          70          75          80
Leu Asn Glu Asn Arg Gln Cys Phe Ile Ile Glu Lys Phe Ser Asp His
85          90          95
His Ala Lys Ile Phe Leu Ile Phe Asn Phe Leu Cys Arg Ile Ile Phe

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100

105

110

Met Ser Met Gly Tyr Phe Glu Tyr Arg Arg Ala Met Cys Asn Asn Tyr
 115 120 125

Ile Arg Val Asn Ile Val Ser Ile Thr Ser Ser Val Tyr His Leu Cys
 130 135 140

Tyr Lys Gln Ser Ser Tyr Ile Leu Leu Val Ile Leu Asn Cys Thr Thr
 145 150 155 160

Lys Leu Tyr Leu Gln Ser Pro Cys Cys Ala Ile Tyr Ile Leu Phe Ile
 165 170 175

Phe Phe Leu Thr Ile Phe Cys Thr His Pro Ser Ser Leu Tyr Ser Pro
 180 185 190

Ser Ala Gln Leu Asn Ser
 195

<210> 136

<211> 214

<212> PRT

<213> Homo sapiens

<400> 136

Arg Cys Ser Ile Val Ser Ser Val Ser Cys Pro Leu Leu Pro Pro Gly
 1 5 10 15

Val Asp Ser Cys Thr Val His Pro Thr Pro Ala Phe Pro Ser Phe Leu
 20 25 30

Ile Ser Pro Val Ile Phe Pro Val Ala Leu Leu Cys Trp Cys Pro Val
 35 40 45

Arg Ser Cys Gly His Lys Arg Leu His Gly Pro His Pro Gln Leu Gly
 50 55 60

Glu Ser Ser Pro Ser Trp Val Leu Trp Thr Val Lys Lys Asp Gly His
 65 70 75 80

Val Gly Ser Val Glu His Glu Val Val Gln Asp Leu Gly Gly His Arg
 85 90 95

Ser Cys Leu Pro Ala Ser Arg Ala Leu Pro Pro Phe Gly Ser Leu Leu
 100 105 110

His Leu Gly Lys Arg Phe Val Pro Thr Pro Arg Arg Val Asn Arg Ala
 115 120 125

Pro Trp Trp Ser Thr His Cys Pro Ser Glu Gly Pro Ser Ser Leu Met
 130 135 140

Ser Trp Cys Pro Gly Leu Pro Gly Arg Ile Leu Ala Ala Leu Pro Gly
 145 150 155 160

Pro Glu Met Asn His Trp Glu Glu Ile Gly Asn Glu His Thr Ala Ala
 165 170 175

Thr Leu His Pro Asn Pro Val Pro Tyr His Arg Arg Leu Leu Trp Gln
 180 185 190

Asp Asp Ser Ile Ser Val Cys Leu Arg Ser Leu Phe Leu Pro Arg Leu
 195 200 205

Leu Pro Pro Gly Arg His
210

<210> 137
<211> 141
<212> PRT
<213> Homo sapiens

<400> 137

Ile Ile Ser His Thr Ala Phe Phe Arg Phe Ser Leu Ser Ile Cys Phe
1 5 10 15

Cys Asn Ser Tyr Trp Thr Phe Thr Ser Leu Ser His Cys Leu Leu Tyr
20 25 30

Leu Leu Thr Phe Val Phe Ser Val Ser His Cys Cys Ile Val Ser Tyr
35 40 45

Tyr Leu Ala Leu Pro Val Asn Ser Leu Ser Phe Phe Cys Asn Leu Phe
50 55 60

Ile Ser Ser Leu Cys Leu Leu Phe Gln Leu Asn Leu Ile Ala Gln Ser
65 70 75 80

Phe Ile Trp Ser Phe Lys Ile Cys Phe Cys Leu His Ser Tyr Phe Val
85 90 95

Leu Phe Ser Leu Ser Leu Tyr Leu Phe Leu Met Leu Ser Ser Ala Tyr
100 105 110

Tyr Phe Asp Ile Tyr Phe Leu Ala Ser Leu Arg Tyr Ser Ile Ile Ser
115 120 125

Gly Pro Arg Ile Ile Lys Ser Pro Thr Thr Ser Val Asp
130 135 140

<210> 138
<211> 223
<212> PRT
<213> Homo sapiens

<400> 138

His Glu Trp Leu Thr Phe Phe Ile Glu Asp Glu Ile Leu Ser Trp Cys
1 5 10 15

Ile Tyr Val Pro Cys Tyr Phe Pro Ala Asn His Phe Ser Asn Thr Ala
20 25 30

Gln Leu Tyr Ser Asp Thr Val Asp Thr Val Phe Gln Ala Leu Tyr Phe
35 40 45

Gln Phe Ile Cys Gly Ile Leu Asp Ser Phe Gly Ser Ser Thr Glu Val
50 55 60

Thr Phe Ile Tyr Arg His Phe Arg Gly Ile His Thr Thr Ser Tyr Asn
65 70 75 80

Cys Thr Ala Ile Ala Cys His Cys His Val Phe Ile Asn Phe Gln Phe
85 90 95

Leu Glu Asp Phe Ser Ile Ile Ile Tyr Lys Leu Val Lys Phe Thr Val
100 105 110

Ile Cys Gln His Leu Glu Gln Glu Lys Met Ser Ala Lys Asp Gly Arg
115 120 125

Thr Leu Tyr Phe Ile Leu Ile Ala Gly Phe Leu Pro Asp Asp Asn Phe
130 135 140

Gln Lys Ile Asn Pro Asn Phe Asn Thr Ser Cys His His Phe Thr His
145 150 155 160

Ser Asn Ile Lys Ile Ser Asn Phe Thr Tyr Ile Ser Ser Glu Ser Thr
165 170 175

Asp Lys Leu Phe Tyr Ile Glu Gly Asn Ile Ser Trp Glu Val His Asn
180 185 190

Cys Thr Cys Arg Ile Ile His Arg Ser Phe Gln Val Leu Leu Leu Gln
195 200 205

Ile Gly Leu Lys Ser Ile Thr Val Gly Leu Ser Val Ala Gln Lys
210 215 220

<210> 139

<211> 173

<212> PRT

<213> Homo sapiens

<400> 139

Asn Ile Ile Thr Phe Phe Tyr Glu Tyr Ser Trp Ser Phe Gln Asn Lys
1 5 10 15

Thr Ser Tyr Trp Phe Asn Lys Leu Trp Tyr Asn Gln Ile Met Lys Leu
20 25 30

Tyr Ala Phe Val Lys Val Thr Phe Gln Lys Asn Ile Leu His Arg Ile
35 40 45

Thr Asp Pro Ser Ala Leu Pro Thr Leu Trp Ala Leu Ser Leu Phe His
50 55 60

His His Tyr Leu His His Cys Leu Gln Val Phe Tyr Thr Ala Arg Val
65 70 75 80

Gly Leu Cys Leu Leu Asn Ser Gln Val Lys Arg Gly Arg Lys Leu Thr
85 90 95

Pro Ser Gly Gly Ser Leu Gly Met Ile His Gly Arg Trp Ser Ile Asn
100 105 110

Thr Ser Ala Leu Phe Pro Leu Glu Ile Leu Arg Asn Gly Phe Tyr Ile
115 120 125

Val Ser Gln Ser Phe Leu Lys Val Leu Asn Phe Asn His Pro Gln Gly
130 135 140

Val Val Gly Phe Ile Ile Val Tyr Ile Pro Leu Trp Leu Pro Phe Leu
145 150 155 160

Leu Val Ser Leu Leu His Ser Lys Leu Gly Phe Ile Ser
165 170

<210> 140

<211> 223

<212> PRT

<213> Homo sapiens

<400> 140

Val Phe Leu Ser Arg Lys Glu Glu Lys Gly Trp Val Val Thr Gly Gly
1 5 10 15

Gln Gln Cys Gln Asn Trp Gly Val Trp Thr Gly Ile Gln Glu Asn Glu
20 25 30

Gly Ala Gln Asp Glu Gln Lys Gly Gly Glu Ala Ile Phe Ile Lys His
35 40 45

Leu Leu Cys Ala Ser Gln Ala Arg Leu Gln Ile Ile Thr Leu Leu Lys
50 55 60

Ser Ser Gln Gln Pro Ser Asn Arg Tyr Leu Ser Leu Ile Pro Tyr Pro
65 70 75 80

Cys Ser Ala Ser Pro Pro Ile Thr Met Ala Glu Glu Phe Lys Pro Leu
85 90 95

Ser Lys Ala Ser Thr Val Ile Cys Pro Leu Asp Pro Ile Pro Ser Ile
100 105 110

Phe Leu Phe Ile Glu Thr Phe Ser Met Val Phe Lys His Thr Leu Leu
115 120 125

Ser Leu Leu Leu Asn Arg Gln Met Gln Leu Ile Lys Leu Phe Phe Ser
130 135 140

Leu Gly Tyr Cys Pro Ile Ser Leu Leu Pro Phe Met Ala Glu Leu Leu
145 150 155 160

Glu Arg Val Phe His Asn His Phe Ile Ser Thr Pro Leu Thr Asp Phe
165 170 175

Thr Gln Leu Glu Glu Glu Gly Thr Leu Ile Pro Lys Cys Pro Ile
180 185 190

Lys Pro Asn Pro Leu Lys Val Leu Cys Cys His Asp Gly Cys Glu His
195 200 205

Gly Glu Lys Ile Leu Glu Asp Val Gly Asn His Asp Arg Glu Thr
210 215 220

<210> 141

<211> 176

<212> PRT

<213> Homo sapiens

<400> 141

Ser Cys Glu Thr Ser Ile Leu Val Ser Trp Gly Gln Gly Asn Gln Gly
1 5 10 15

Pro Ser Met Leu Ile Leu Pro Cys Val Arg Leu Ile Leu Ser Ile Ser
20 25 30

Gly Gly Gln Val Ala Thr Trp Pro Pro Gly His Thr His Gln Glu Phe
35 40 45

Ile Leu Cys Asn Leu Glu Glu Gly Leu Arg Asn Ala Gly Gly Tyr Leu
50 55 60

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Pro Gly Asp Ile Leu Tyr Pro Leu Ile Gly Asn Trp Gly Arg Ser Gln
65 70 75 80

Phe Gly His Thr Phe Pro Glu Leu Asn Phe Tyr Glu Gly Asp Leu Gly
85 90 95

Gly Arg Gly Ser Glu Ala Asn Ile Ala His Val Pro Gln Thr Leu Val
100 105 110

Cys Leu Thr Glu Ile Tyr Ile Phe Ser Asp Lys Phe Phe Lys Ser Leu
115 120 125

Leu Tyr Val Phe Arg Thr Ile Ser Gly Asp Phe Leu Lys Asn Asn Phe
130 135 140

Cys Leu Leu Tyr Leu Phe Ser Ala Val Thr Gly Pro Gln Ser Pro Tyr
145 150 155 160

Asn Val Asn Pro Glu Val Glu Leu Leu His Tyr Ser Phe Phe Phe Phe
165 170 175

<210> 142
<211> 209
<212> PRT
<213> Homo sapiens

<400> 142

Ser Gln Lys Asn Thr Thr Pro Leu Leu Glu His Asn Val Ile His Phe
1 5 10 15

His Leu Leu Ala Ser Leu Ala Glu Phe Gln Lys Cys Asn His Tyr Glu
20 25 30

Ala Gly Thr Lys Asp Phe Pro Asn His Phe Val Ile Leu Ile Asn Ile
35 40 45

Ser Ser Ile Leu Leu Asp Pro Phe Thr His Phe Leu Tyr Cys Phe Pro
50 55 60

Phe Pro Glu Val Leu Asn Lys Ile Ser Leu Leu Phe Val Leu Glu Lys
65 70 75 80

Ser Ser Cys Leu Pro His Arg Met Val Val Gly Glu Thr Gln Trp Glu
85 90 95

Thr Ser Val Lys Gly Gln Lys Thr Leu Thr Phe Val Ile Val Ser Ser
100 105 110

Phe Phe Gln Asn Thr Ser Ile Ala Trp Leu Leu Tyr Thr Arg Leu Leu
115 120 125

Lys Ile Tyr Leu Cys Pro Thr Thr Leu Phe Val Val Asn Ile Phe Leu
130 135 140

Ile Leu Ile Gln Tyr Ile Ser Glu Ile Phe Asp Leu Gln Ser Asn Leu
145 150 155 160

Ser Ile Thr Met Ile Pro Tyr Leu Asn Thr Gly Met Val Lys Met Arg
165 170 175

Thr Asn Leu Pro Phe Leu Cys Ser Tyr Arg Gln Ala Ile Leu Ile Thr
180 185 190

Asn Val Gln Ser Lys Pro Met His Glu Cys Arg Met Gln Leu Lys Ser

195

200

205

Arg

<210> 143
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 143

Ser Phe Pro Val Ser Glu Lys Ile Lys Pro Cys His Ser Lys His Val
 1 5 10 15

Leu Pro Lys Phe Lys Lys His Val Asn Leu Leu Val Lys Leu Tyr Val
 20 25 30

Leu Val Asp Phe Glu Ile Leu Cys Asn His Leu Lys Leu Ala Ser Gly
 35 40 45

Pro Gln Leu Asp Gln Ile Pro Val Ser Leu Phe Leu Thr Ser Leu Cys
 50 55 60

Trp Thr Thr Tyr Leu Gln Arg Gln Lys Lys Asp Lys Ser Asn Asn Pro
 65 70 75 80

Thr Val Ile Leu His Lys Ser Met Thr Lys Leu Pro Leu Gln Lys Leu
 85 90 95

Asn Ser Ser Ser Leu Asn Phe Leu Thr Ile Thr Trp Lys Ser Ala Thr
 100 105 110

Met Val Asn Cys Gln Thr Cys Thr Ala Ser Gln Pro Thr Leu Tyr Thr
 115 120 125

Asn Lys Gly Gly Leu Tyr Ser Asp His Tyr Trp Asn Lys Leu Ser Leu
 130 135 140

Pro Asn Val Ser Ser His Pro Leu Asn Tyr Leu Leu Leu Leu Tyr Phe
 145 150 155 160

Tyr Thr Ala Ile Lys Leu Lys Leu Leu Lys His Asn Phe Ala His Val
 165 170 175

Gln Asn Phe Tyr Ser Val Pro Gln Gln Ser Leu Thr Asn Pro Gln Asn
 180 185 190

Leu Pro Thr Asn Leu Phe Leu Thr
 195 200

<210> 144
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 144

Val Ile Pro Ser Ser Val Cys Pro Thr Val Gly Leu Pro Asp Thr Asp
 1 5 10 15

Ser Thr Thr Leu Val Ile Cys Asp Phe Leu Phe Thr Gly His Glu Lys
 20 25 30

Pro Phe Thr Asp Trp Leu Gln Cys Ala Ser Leu Pro Tyr Gln Leu Leu

35

40

45

Phe His Thr Asn Ser His Leu Val Asn Trp Val Pro Cys Ser Ala Lys
 50 55 60

Met Cys Phe Ser Ala Gln Val Ile Leu Tyr Thr Pro Ile Leu Asn Leu
 65 70 75 80

Leu Cys Ala Ser Gln Ser Thr Ile Phe Gln Ser Gln Leu Lys Pro Phe
 85 90 95

Ile Ile Gln Tyr Gly Phe Ser Pro Gln Ser His Val Lys Val Ser Pro
 100 105 110

Cys Phe Phe Gln Thr Val Val Ala Leu Thr Gly Leu Leu Leu Gly Tyr
 115 120 125

Lys Leu Thr Leu Tyr Phe Ser Ile Phe Ser Leu Pro Trp Ser Lys Arg
 130 135 140

Lys Ile Arg Ser Met Asn Leu Arg Thr Tyr Lys Leu Leu Val Glu Gln
 145 150 155 160

Gly Leu Asp Ile Val Cys Ile Asp Ser Arg
 165 170

<210> 145

<211> 214

<212> PRT

<213> Homo sapiens

<400> 145

Met Gly Thr Ala Leu Phe Lys Val His Phe Pro Asp Ser Ala Val Leu
 1 5 10 15

Phe Ser Ser Ser Ile Pro Thr Asn Ser Gly Leu Gln Ala Phe Pro Leu
 20 25 30

Leu Ser His Ser Ile Leu Pro Glu Pro Ser Ile Lys Ala Pro Thr Ile
 35 40 45

Leu Pro Ser Gly Gly Ala Ile Phe Leu Ser Phe Pro Glu Arg Trp Asp
 50 55 60

Pro Leu His Phe Thr His Leu Ser Pro Arg Pro Ser Thr Cys Leu Ala
 65 70 75 80

Gln His Ser Asn Ile Asn Pro Val Glu Ile Asn Cys Gly Ile Ala Trp
 85 90 95

Phe Pro Trp Met Val Ile Gln Val Val His Cys Thr Thr Met Cys Asn
 100 105 110

Ile Pro Gly Lys Arg Gln Lys Phe Ile Asp Trp Leu Gly Val Leu Asn
 115 120 125

Ser Gln Gly Lys Leu Phe Asp His Cys Met Pro Ser Thr Trp Glu Asn
 130 135 140

His Ile Pro Gln Leu Leu Arg Pro Tyr Cys Met Val Thr Trp Gly Asn
 145 150 155 160

Ile His Thr Val Ser Pro Ala Leu Ser Ala His Lys Gly Asp Ile Val
 165 170 175

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Gln Arg Gly Asn Leu Ser Leu Pro Ser Thr Ser Leu Phe Leu Thr Pro
 180 185 190

Lys Ser Leu Ser Leu Leu Thr Lys Asp Ile Ser Ala Ser Ala Ile Leu
 195 200 205

Phe Ala Glu Trp Arg Ile
 210

<210> 146

<211> 200

<212> PRT

<213> Homo sapiens

<400> 146

Arg Ile Ser Gln Lys Cys Cys Val Leu Leu His Pro Leu Trp Gln Leu
 1 5 10 15

Phe Val Tyr Leu Ser His Ala Gly Glu Val Asn Thr Asp Pro Leu Val
 20 25 30

Lys Met Met Ser Asp Ile Phe Phe Ser Ala Ala Asn Leu Ser Ile Phe
 35 40 45

Ser Phe Val Ile Met Gly Ile Leu Trp Lys Val Thr Trp Arg Leu Cys
 50 55 60

Lys Ile Tyr Ser Ser Gln Phe Tyr Leu Pro Val Leu Ala Ser Ile Asp
 65 70 75 80

Val Ser Cys Leu Ser Leu Leu Ala Gln Phe Ala Lys Cys His Tyr Leu
 85 90 95

Pro Phe Ser Ser Met Arg Cys Met Tyr Val Tyr Met Tyr Ile Cys Ile
 100 105 110

Asp Ile Ser Val Tyr Leu Glu Thr Tyr Ile Asp Glu Leu Ser Ile Thr
 115 120 125

Met Ile Ile Tyr Phe Asp Val Gln Val Val Pro Asp Leu Thr Ser Asp
 130 135 140

Ser Phe Leu Asn Leu Met Tyr Gln Asp Val His Lys His Val Phe Phe
 145 150 155 160

Pro Cys Pro Asn His Pro Gly Val Gly His Leu Ser Lys Met Ser Cys
 165 170 175

Phe Cys Leu Leu Arg Trp Arg Ser Gly Ile Gln Lys Ser Arg Ser Val
 180 185 190

Cys Leu Val Cys Phe Ile Ala Ile
 195 200

<210> 147

<211> 191

<212> PRT

<213> Homo sapiens

<400> 147

Tyr Leu Ile Leu Lys Tyr Ile Ile Met Lys Ser Ile Asn Val Ser Arg
 1 5 10 15

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Gln Arg Ser Tyr Ile Pro Lys Ile Gly Asn Asn Cys Val His Met Cys
 20 25 30
 Tyr His Thr Ile His Pro Ile Leu Leu Tyr Leu Asn Phe Pro Lys Gln
 35 40 45
 Pro Val Val Lys Gln Leu Val Met Arg Thr Asn Glu Lys Leu Pro Glu
 50 55 60
 Ile Ser Asp Ser Ser Cys Thr Tyr Phe Thr Pro Glu Val Trp Glu Phe
 65 70 75 80
 Thr Glu His Asn Val Arg Phe Phe Ser Ile Ser Tyr Pro Leu Pro Lys
 85 90 95
 Ile Val His Lys Ile Gln Asn Ile Ser Ser Leu Thr Phe Leu Glu Cys
 100 105 110
 Asn His Thr Leu Asp Asn Tyr Phe Arg Leu Leu Asn Gly Lys Arg Thr
 115 120 125
 Gly Arg Arg Val Lys Val Thr Cys Phe His Leu Ser Tyr Phe Arg Leu
 130 135 140
 Thr Ser Lys Ser Phe Phe Thr Leu Phe Leu Ile Leu His Arg Pro Phe
 145 150 155 160
 Leu Val Lys Ser Ala Asp Ser Lys Tyr Lys Ala Asn Ala Tyr Ser Tyr
 165 170 175
 Val Ile Phe Met Phe Phe Lys Asn Asn Met Val Leu Thr Ser Ser
 180 185 190
 <210> 148
 <211> 193
 <212> PRT
 <213> Homo sapiens
 <400> 148
 Gly Leu Ser Glu Gly Glu Ala Ser Leu His Leu Asp Phe Phe Leu Lys
 1 5 10 15
 Ile Thr Thr Ile Met Asn Thr Ala Ala Thr Ser Leu Leu Cys Thr Arg
 20 25 30
 Gly Ile Ile Leu Gly Val Ser Val Tyr Ala Tyr Pro Glu Ile Ser Ser
 35 40 45
 Phe Leu Leu Arg Gly Glu Val Leu His Ile Asp Phe Ile Val Arg Asn
 50 55 60
 Gly Lys Ile Phe Asn Lys Cys Ile Arg Ala Thr Thr Phe Ser Ala Leu
 65 70 75 80
 Gln Pro Ala Ser Pro Pro Ser Arg Gln Asp Ile Met Asn Pro Leu Phe
 85 90 95
 Gly Lys Ala Ala Glu Lys His Val Leu Gln Thr Tyr Tyr His Leu Val
 100 105 110
 Asn Asn Ser Gln Trp Thr Asp Gln Asn Ser Arg Arg Phe Pro Leu Ser
 115 120 125

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Leu His Cys Thr Asp Ala Ala Thr His Ala His Ile Pro Leu Asn Leu
 130 135 140

Pro Val Thr Thr Ala Gln Arg Gln Leu Ser Ser Trp Ala Gln Asn His
 145 150 155 160

Trp Gly Thr Phe Trp Gln Leu Ala Asn His Cys Ala Gln Arg Gln Ser
 165 170 175

Gln Phe Thr Leu Pro Gln Arg Gly Thr Glu Tyr Thr Ala His Pro His
 180 185 190

Leu

<210> 149

<211> 195

<212> PRT

<213> Homo sapiens

<400> 149

Ile Leu Asp Ser Phe Arg Asp Phe Leu Glu Gln Gly Gln Glu Ser Phe
 1 5 10 15

Leu Asp Lys Val Arg Ser Asp Leu Ser Gln Gly Arg Ser Ile Phe Ser
 20 25 30

Tyr Thr Arg Arg Asn Phe His His Lys Gln Cys Pro Lys Asp Ala Cys
 35 40 45

Tyr His Phe Tyr Ser Met Leu Phe Ser Val Phe Trp Pro Ile Leu Leu
 50 55 60

Glu Ile Gln Val Arg Lys Met Thr Lys Gly Ile His Glu Thr Arg Ser
 65 70 75 80

Leu Phe Arg Arg Trp Tyr Asp Cys Leu Ser Arg Lys Lys Glu Met Thr
 85 90 95

Pro Ser Phe Trp Glu Phe Thr Asn Ser Gly Trp Val Leu Asp Lys His
 100 105 110

Leu Lys Asn Gln Ser Phe Pro Cys Val Ala Ala Ile Thr Ile Lys Met
 115 120 125

Glu Met Arg Ser Gly Ala Val Asn Ile Gln Gln Glu Leu Leu Ile Cys
 130 135 140

Arg Pro Asp Lys Ser Pro Pro Glu Trp Thr Pro Ala Arg Glu Gly Arg
 145 150 155 160

Ser Leu Glu Gly Arg Arg Glu Asp Thr Glu Asp Leu Pro Leu Pro Gln
 165 170 175

Glu Ala Pro Arg Glu Arg Ala Thr Thr Val Tyr Ser Ser Arg Leu Trp
 180 185 190

Gly Asp Ser
 195

<210> 150

<211> 168

<212> PRT

<213> Homo sapiens

<400> 150

Leu Lys Ser Ser Gln Gln Pro Ser Asn Arg Tyr Leu Ser Leu Ile Pro
 1 5 10 15
 Tyr Pro Cys Ser Ala Ser Pro Pro Ile Thr Met Ala Glu Glu Phe Lys
 20 25 30
 Pro Leu Ser Lys Ala Ser Thr Val Ile Cys Pro Leu Asp Pro Ile Pro
 35 40 45
 Ser Ile Phe Leu Phe Ile Glu Thr Phe Ser Met Val Phe Lys His Thr
 50 55 60
 Leu Leu Ser Leu Leu Leu Asn Arg Gln Met Gln Leu Ile Lys Leu Phe
 65 70 75 80
 Phe Ser Leu Gly Tyr Cys Pro Ile Ser Leu Leu Pro Phe Met Ala Glu
 85 90 95
 Leu Leu Glu Arg Val Phe His Asn His Phe Ile Ser Thr Pro Leu Thr
 100 105 110
 Asp Phe Thr Gln Leu Glu Glu Glu Glu Gly Thr Leu Ile Pro Lys Cys
 115 120 125
 Pro Ile Lys Pro Asn Pro Leu Lys Val Leu Cys Cys His Asp Gly Cys
 130 135 140
 Glu His Gly Glu Lys Ile Leu Glu Asp Val Gly Asn His Asp Arg Glu
 145 150 155 160
 Thr Glu Lys Val Val Lys Gly Phe
 165

<210> 151

<211> 121

<212> PRT

<213> Homo sapiens

<400> 151

Thr Gly His Pro Arg Leu Pro Pro Thr Leu Lys Gln Pro Ala Arg Gln
 1 5 10 15
 Cys Val Thr Tyr Gly Phe Asn Ser Asp Glu Glu Asp Ser Ser Trp His
 20 25 30
 Gly Leu Leu Arg Thr Leu Asn His Lys Val Ser Arg Asp Arg Arg Thr
 35 40 45
 Val Pro Thr Ala Ala Thr Pro Arg Trp Val Cys Ser Pro Val Ala Thr
 50 55 60
 Leu Lys Phe Leu Lys Thr Phe Tyr Gly Val Leu Leu Cys His Leu Gly
 65 70 75 80
 Trp Ser Ala Val Thr Cys Leu Ile Pro His Leu Ala Glu Thr His Arg
 85 90 95
 Arg Ser Leu Val Arg Thr Arg Glu Gly Ala Gly His Ser Gly Ser Cys
 100 105 110
 Gln His Phe Gly Arg Leu Arg Gln Glu

115

120

<210> 152
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 152

Leu Val Ala Ile Ser Leu Lys Phe Phe Phe Cys Arg Lys Ile Ser His
 1 5 10 15

Arg Trp Leu Ile Ile Cys His Ile Lys Pro Leu Arg Lys Lys Gly Trp
 20 25 30

Gln Met Leu Leu Leu Val Arg Leu Leu Cys Tyr Glu Ile Trp Val Lys
 35 40 45

Cys Ala Gly Val Thr Glu Glu Gly Glu Phe Leu Ser Pro Ser Arg Ile
 50 55 60

Glu Glu Asn Gly Val Arg Asp Arg Glu Gln Leu Ala Arg Lys Ala Gln
 65 70 75 80

Gly Val Asn Leu Thr Arg Lys Phe Lys Gln Trp Leu Leu Leu Tyr Ser
 85 90 95

Leu Phe Val Gln Ile Leu Lys Met Lys Leu Phe Ile Lys Phe Ile Val
 100 105 110

Val Phe Leu Asn Ser Met Arg Asn Gly Arg Asn Leu Arg Tyr Cys Ser
 115 120 125

Lys Gly Ser Ser Ala Pro Asn Leu Phe Leu Thr Lys Phe Ile Leu Leu
 130 135 140

Pro Lys Val Ser Pro Asn Val Thr Pro Thr Ser Ile Arg Gln Glu Tyr
 145 150 155 160

Cys Asn Glu Ala Met Thr Ile His Asn Leu Leu Ser Ile Lys Gln Val
 165 170 175

His Glu Arg Phe Cys Asn Asn Thr Leu Cys Lys Ser Leu Trp Asn Asn
 180 185 190

Asn Lys Ile Asp Val His Phe Met Tyr Tyr Cys Ile Leu His Ile Leu
 195 200 205

Arg His Glu
 210

<210> 153
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 153

Val Asp His Trp Ile His Leu Asp Met Phe Lys Met Phe Thr Tyr Gly
 1 5 10 15

Val Leu Ile Leu Leu Gly Pro Glu Asn Ala Tyr Ser Gly Ile Leu Leu
 20 25 30

Ser Ser Gly Lys Arg Ala Pro Phe Ser Pro Asn Leu Lys Asp His Glu

35

40

45

Asn His Leu Lys Cys Leu Leu Glu Val Arg Ile Pro Gln Pro Val Trp
 50 55 60

Gly Pro Ala Ile Cys Ile Phe Lys Glu Thr Trp Thr Val Thr Cys Glu
 65 70 75 80

Lys Pro Tyr Ala Gln Tyr Val Leu Ala Ile Arg Ile Thr Met Val Asn
 85 90 95

Ile Asn Tyr Leu Phe Arg Glu His Lys Phe Leu Leu Thr Gln Leu Asn
 100 105 110

Ala Lys Cys Phe Lys Ser Lys Thr Pro Cys Leu Lys Asn Ile Gly Phe
 115 120 125

Phe Phe Lys Gln Tyr Lys Thr Gly Tyr Leu Ser His Glu Phe Gly Ala
 130 135 140

Pro Asn Ser His Cys Phe Gln Thr Ile Ser Gln Glu Arg Ser Leu Gln
 145 150 155 160

Ser Pro Pro Val Ala Ser Ile Ala Leu Cys Val Leu Lys
 165 170

<210> 154

<211> 172

<212> PRT

<213> Homo sapiens

<400> 154

Gln Ile Leu Gly Ser Lys Arg Arg Lys Met Ser Arg Met Lys Arg Tyr
 1 5 10 15

Leu Ile Ile Ser Ser Ala Asp Phe Leu Gly Asn Val Phe Ile Pro Ile
 20 25 30

Phe Ile Thr Tyr Val Val Lys Asp Ser Phe Ser Gly Leu Tyr Ile Gln
 35 40 45

Leu Phe Glu Tyr Ile Tyr Asn Asn Ile Tyr Ser Cys Leu Ile Gly Asn
 50 55 60

Phe Asn Asn Tyr Gln Asn His Lys Glu Ile Phe Phe Ala Cys Phe His
 65 70 75 80

Tyr Phe His His Phe Gly Ile Cys Tyr Val Val Lys Lys Tyr Ser Glu
 85 90 95

Lys Thr Ile Ile Leu Lys Ser Cys Cys Ile Asn Arg Ile Trp Gly Lys
 100 105 110

Glu Gln Thr Thr Lys Arg Gly Arg Leu Met Ser Leu Val Gly Thr Trp
 115 120 125

Glu Val Thr Leu Ile Ser His Phe Leu Asn Leu Lys Glu Glu Lys Val
 130 135 140

Lys Leu Ile Asn His Ser Thr Gln Lys Asn Thr Phe Trp Thr Ile Lys
 145 150 155 160

Asp Ser Ala Ile Tyr Met Asp Tyr Ile Phe Ile Ser
 165 170

<210> 155
 <211> 231
 <212> PRT
 <213> Homo sapiens

<400> 155

Arg Cys Glu Pro Leu Pro Gly Leu Glu Leu Leu Leu Asp Cys Ile Pro
 1 5 10 15
 Arg Gly Asn Phe Met Thr Glu Phe Arg Ser Ala His Ile Leu Ala Ala
 20 25 30
 Ser Lys Arg Glu Arg Glu Ser Pro Ala Leu Ile Ser Val Ile Phe Leu
 35 40 45
 Phe Asp Leu Ile Tyr Ser Ile Asn Thr Pro Gln Glu Gly Thr Phe Pro
 50 55 60
 Ser Pro Ala Pro Lys Gln Asn Arg Ser Ile Leu Asp Gly Leu Pro Asn
 65 70 75 80
 Trp Cys Leu Gln Thr Ser Ser Leu Ser Pro Ser Pro Thr Leu Lys Ser
 85 90 95
 Arg Ser Leu Ile Cys Met Gly Cys Ile Ser Thr Leu Met Leu Pro Gly
 100 105 110
 Phe Trp Leu Gly Leu Pro Asn Gly Arg His His Trp Arg Arg Met Glu
 115 120 125
 Val Gly Gly Gly Arg Trp Glu Gly Arg Gly Trp Gly Ile Val Pro Leu
 130 135 140
 Ala Pro Phe Leu Cys Ser Phe Gly Ser Leu Gln His Pro Val Thr Leu
 145 150 155 160
 Ser Leu Ser His Gln Val Phe Ile Phe Cys Trp Phe Pro Phe Val Leu
 165 170 175
 Pro Thr Phe Thr Thr Cys Pro Phe Leu Lys Asp Pro Ser Ile Ala Leu
 180 185 190
 Phe Gly Asn Ile Leu Phe Ser Ala Gly Thr Pro Glu Leu Tyr Arg Arg
 195 200 205
 Val Gln Glu Ala Thr Lys Leu Gln Met Pro Thr Thr Trp Trp Asn Arg
 210 215 220
 Cys Pro Leu Glu Ala Ala Ala
 225 230

<210> 156
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 156

Pro Ile Cys Leu Asn Ala Ser Cys Ser Gly Gly Leu Thr Pro Ile Asn
 1 5 10 15
 Pro Ser Cys Leu Trp Lys Gly Leu Pro Thr Glu Leu Asp Ser Asn Ile
 20 25 30

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Gln Ser Ser Ser Thr His Pro Phe Ser Trp Thr Leu Trp Gly Pro Arg
35 40 45

Gln Gln Thr Ser Cys Leu Phe Tyr Arg Ala Ala Leu Gln Met Ala Gly
50 55 60

Ala Thr Val Phe Ser Ala Leu Glu Asp Leu Ser Met Val Val Ser Phe
65 70 75 80

His Ile Ser Tyr Asp Phe Tyr Ser Gln Glu Ser Leu Ile Cys Leu Leu
85 90 95

Met His Phe His Leu Ser Val Thr Leu Leu Gln Asn Gln Arg Glu Ile
100 105 110

Thr Leu Ile Phe Leu Arg Ala Ser Lys Leu Pro Gly Leu Gln Arg Pro
115 120 125

Cys Arg Ala His Arg Gln Arg Met Thr Arg Gly His Met Pro Cys Met
130 135 140

His Phe His Leu Ser Val Thr Leu Leu Gln Ala Asn Leu Lys Gly Met
145 150 155 160

<210> 157

<211> 225

<212> PRT

<213> Homo sapiens

<400> 157

Val Pro Leu Val Asn Pro Glu Tyr Asn Ile Phe Tyr Lys Thr Cys Phe
1 5 10 15

Ile Leu Ser Gly Met Arg Cys Ile Phe Glu Gly Leu Leu Lys Leu Ala
20 25 30

Ile Thr Ile Arg Leu Leu Leu Asn Leu Gly Ile Ser Leu Pro Ser Cys
35 40 45

Gln Gly Leu Tyr Leu Met Phe Val Ser Leu Lys Lys Lys Arg Asn Gln
50 55 60

Thr Asp Tyr Thr Leu Leu Lys Thr Glu Asp Met Tyr Phe Asn Met Ser
65 70 75 80

Leu Leu Pro Val Ile Gln Ser Leu Lys Phe Gln Asn Pro Ser Gly Thr
85 90 95

Leu Cys Gly Pro Trp Ile Lys His Thr Trp Ala Tyr Glu Cys Val Asp
100 105 110

His Trp His Met Arg Gly Asn Cys Leu Leu Gly Tyr Val Ala Leu Pro
115 120 125

Leu Ser Ile Tyr Asn Ser Asn Val Ser Glu Arg Ser Ser Ser Leu Lys
130 135 140

Leu Phe Ser Arg Ile Arg Gln Thr Val Pro Ala Asn Gln Gly Asp Glu
145 150 155 160

Phe Trp Pro Met Phe Gly Arg Ser Leu Leu Gln Trp Gly Val Thr Ser
165 170 175

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His Glu Arg Ile Ile Arg Asn Leu Ser Thr Thr Leu Gly Asn Leu Ala
180 185 190

Asn Glu Leu Ala Glu Ala Ile Ala Thr Lys Arg Ser Ser Asp Ser Leu
195 200 205

Asp Arg Ile Val Met Asp Asp Gly Ile Thr Leu Gly Tyr Ile Val Val
210 215 220

Lys
225

<210> 158

<211> 215

<212> PRT

<213> Homo sapiens

<400> 158

Leu Pro His Leu Cys Cys Ser Leu Leu Thr Ile Lys Pro Asp Met Cys
1 5 10 15

Leu Ser Pro Cys Leu Pro Thr His Pro Leu Ile Thr Ser Val Pro Cys
20 25 30

Ser Gln Val Ala Ser Arg Glu Asp Cys Gly Leu Met Ser Ser Phe Met
35 40 45

Pro Trp Leu Leu Leu Ile Arg Ala Leu Tyr Thr Phe Ser Lys Ala Leu
50 55 60

Glu Ser Lys Lys Val Leu Leu Gly Ser Ser Pro Gln Met Gln Phe Met
65 70 75 80

Lys Ser Val Ser Phe Ser Phe Pro Ser Glu Phe Leu Ser Val Ser Ile
85 90 95

Lys Ala Leu Asp Thr Pro Trp Phe Thr Arg Gln Lys Leu Ile His Pro
100 105 110

Thr Gln Pro His Gly Tyr Ser Phe Val Leu Leu Asp Asn Asn His Leu
115 120 125

Arg Lys Pro Asp Leu Phe Pro His Ser Ser Phe Ser Phe Cys Pro Ala
130 135 140

Glu Asn Lys Arg Thr Ser Cys His Ile Val Ile Cys Ser Ala Leu Leu
145 150 155 160

Leu Arg Ser Leu Val Gly Lys Thr Gly Pro Ile Lys Arg Asp Thr Ala
165 170 175

Met Pro Trp Gly Glu Asp Asn Lys Ser Asp Gly Ser Arg Ala Leu Glu
180 185 190

Ser Arg Gly Gly Val Thr Asn Cys Pro Asn Gly Thr Val Pro Ser Glu
195 200 205

Leu Leu His Leu Leu Leu Thr
210 215

<210> 159

<211> 202

<212> PRT

<213> Homo sapiens

<400> 159

Leu Lys Val Lys Lys Glu Tyr Pro Phe Ile Leu Asp Asn Cys Cys Gln
 1 5 10 15
 Arg His Tyr Asn Ile Ser Val Val Ile Pro Tyr Phe Ser Lys Ala Lys
 20 25 30
 Ile Glu Ile Trp Pro Leu Leu Leu Cys Asn Phe Leu Lys Phe Lys Val
 35 40 45
 Ser Val Phe Ser Ile Ile Lys Tyr Ser Ser Leu Lys Leu Met Ala Ile
 50 55 60
 Arg Tyr Ser Ile Val Trp Ile Ile Tyr Leu Arg Phe Cys Gly Leu Phe
 65 70 75 80
 Cys Phe Gln Asn Asn Thr Lys Ile Asn Ile Phe Val Cys Lys Tyr Phe
 85 90 95
 Thr Lys Ile Tyr Ser Glu Lys Phe Leu Lys Val Glu Phe Leu Gly Glu
 100 105 110
 Val Thr Phe Lys Cys Leu Ile His Leu Leu Ser Gly Lys Thr Val Arg
 115 120 125
 Phe Leu His Ser His His Ser Val Tyr Gly His Gln Leu Thr Val Phe
 130 135 140
 Phe Pro Thr Leu Leu Ile Phe Ser Leu Ser Met Trp Ile Lys Phe Gly
 145 150 155 160
 Phe Tyr Tyr Phe Asn Leu Tyr Ser Ile Thr Leu Leu Ala Ile Ser Leu
 165 170 175
 Gly Val Val Asn Ile Cys Pro Cys Pro Phe Leu Phe Gly Met Leu Ser
 180 185 190
 Leu Met Thr Asn Cys His Asn Val Ile Asn
 195 200

<210> 160

<211> 215

<212> PRT

<213> Homo sapiens

<400> 160

Asn Ile Ser Phe Leu Ser Leu Lys Met Ala Val Ser Cys Val Leu Ile
 1 5 10 15
 Asn Leu Lys Ile Asn Leu Ser Ile Gly Glu Ala Gly Lys Leu Ala Trp
 20 25 30
 Lys Val Asn Leu Leu Ser Arg Gly Lys Ile Ser Trp Ala Leu Ile Lys
 35 40 45
 Val Asp Ile Phe Arg Gly Gly Lys Ser Lys Phe Tyr His Thr Leu Ala
 50 55 60
 Phe Val Gln Phe Ser Pro Leu Phe Ser Leu Tyr Tyr Leu Phe Phe Cys
 65 70 75 80
 Phe Thr Leu Gly Lys Ala Asn Tyr Leu Phe Ser His Ile Phe Trp Gly

85

90

95

Pro Ile Leu Met Ile Leu Ile Phe Phe Ser Cys Leu Thr Cys Arg Pro
 100 105 110

Ser Thr Glu His Cys Arg Ala Ser Ser Gln Arg Ser Ser Gly Asp Glu
 115 120 125

Leu Ser Phe Leu Gly Trp Asp Cys Cys Ala Gly Leu Asp Arg Thr Glu
 130 135 140

Asn Cys Arg Asp Lys Tyr Thr Tyr Glu Gln Thr Ser His Leu Phe Ile
 145 150 155 160

Lys Ala Leu His Trp Leu Trp Lys Thr Ala Val Gly Leu Arg Lys Leu
 165 170 175

Asn Phe Leu Gly Ile Phe Val Leu Asn Ile Glu Arg Glu Arg Arg Arg
 180 185 190

Phe Leu Phe Lys Arg Val Tyr Glu Thr Leu Ser Leu Lys Ser Asn Leu
 195 200 205

Met Thr Gly Cys Met Cys Ser
 210 215

<210> 161

<211> 199

<212> PRT

<213> Homo sapiens

<400> 161

Lys Ile Gln Ile Leu Cys His Ser Pro Ala Tyr Leu Leu Thr Leu Pro
 1 5 10 15

Leu Leu Ser Lys Phe Ile Ile Leu Thr Val Val Val Asn Ala Leu Leu
 20 25 30

Ser Val Pro Cys Pro Phe Val Tyr Thr His Leu Val Leu Leu Ser Phe
 35 40 45

Phe Ile Asn Met Leu His His Thr Val Ile Phe Leu Leu Ile Phe Phe
 50 55 60

Lys Lys Val Trp Asn Ile Ser Phe Pro Leu Cys Val Leu Cys Asn Leu
 65 70 75 80

Ser Asp Lys Thr Thr Cys Tyr Ile Phe Ser Thr His Asn Phe Ile Ser
 85 90 95

Gly Leu Cys Ala Leu Tyr Lys Ser Thr Asn Leu Ser Val Trp Ser Val
 100 105 110

Leu Ser Ser Pro Gly Gln Ile Leu Ile Ile Cys Gln Glu Cys Asn Ser
 115 120 125

Ile Ile Ser Ser Val Thr Gln Phe Ser Lys His Arg Ile Leu Cys Val
 130 135 140

Pro Ile Ala Leu His Trp Ile Gly Pro Gln Phe Cys Gln Cys Ile Ile
 145 150 155 160

Arg Thr Tyr Leu Gln Val Leu Ser Leu Leu Leu Trp Arg Glu Pro Phe
 165 170 175

Ser His Met Asn Cys Asp Phe Val Tyr Leu Ala Pro Thr Met Val Leu
 180 185 190

Asn Ser Trp Val Leu Gly Lys
 195

<210> 162
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 162

Tyr Trp Phe Asn Lys Leu Trp Tyr Asn Gln Ile Met Lys Leu Tyr Ala
 1 5 10 15

Phe Val Lys Val Thr Phe Gln Lys Asn Ile Leu His Arg Ile Thr Asp
 20 25 30

Pro Ser Ala Leu Pro Thr Leu Trp Ala Leu Ser Leu Phe His His His
 35 40 45

Tyr Leu His His Cys Leu Gln Val Phe Tyr Thr Ala Arg Val Gly Leu
 50 55 60

Cys Leu Leu Asn Ser Gln Val Lys Arg Gly Arg Lys Leu Thr Pro Ser
 65 70 75 80

Gly Gly Ser Leu Gly Met Ile His Gly Arg Trp Ser Ile Asn Thr Ser
 85 90 95

Ala Leu Phe Pro Leu Glu Ile Leu Arg Asn Gly Phe Tyr Ile Val Ser
 100 105 110

Gln Ser Phe Leu Lys Val Leu Asn Phe Asn His Pro Gln Gly Trp Ala
 115 120 125

Leu Ser Tyr Thr Ser Phe Val Ala Ser Leu Pro Ser Cys Leu Thr Ser
 130 135 140

Pro Phe Gln Thr Arg Ile Tyr Phe Phe Ser Leu Lys Gln Asn Lys Met
 145 150 155 160

Phe Asn Leu Lys Pro Leu Gln Asn Thr Asn Leu Tyr Leu Lys Asn Leu
 165 170 175

Asn Ile Gly Glu Asn Glu Thr Val Tyr Ala Gln Val His Asp Trp Trp
 180 185 190

Arg Leu Lys Ser Ser Lys Ile Phe Leu Lys Gly Tyr Pro Ser Arg Arg
 195 200 205

Leu Asn Cys Leu Ile
 210

<210> 163
 <211> 236
 <212> PRT
 <213> Homo sapiens

<400> 163

Leu Ala Ser Glu Ser Leu Leu Val Arg Lys Glu Val Val Leu Phe Pro
 1 5 10 15

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Leu Gln Ala Lys Ala Phe Gln Val Leu Ser Phe Cys Ser Ile Lys Arg
 20 25 30
 Gln Leu Arg Gly Arg Tyr Pro Gln Glu Phe Pro Asp Ser Cys Thr Asp
 35 40 45
 Leu Ser Ala Glu Ile Ala Glu Val Ser Trp His Leu His Glu His Leu
 50 55 60
 Ser Val Ala Gly Arg Ile Asn Gly Lys Arg Ala Thr Glu Ile Pro Gly
 65 70 75 80
 Ala Lys Ser Ser Ser Glu Ser Pro Ile Phe Asp Gln Glu Leu Val Gly
 85 90 95
 Ser Leu Arg Ile Cys Ile Ser Ser Asp Ser Arg Leu Ser Gly Leu Ser
 100 105 110
 Asn Trp Asp Gln Ser Asn Ser Tyr His Ala Tyr Leu Val Pro Gly Ser
 115 120 125
 Leu Leu Arg Ala Ser Trp Thr Pro Ala Arg Val Ser Pro His Ser Asn
 130 135 140
 His Met Arg Tyr Val Leu Leu Leu Ser Pro Cys Ala Asp Glu Asp Thr
 145 150 155 160
 Arg His Arg Glu Asn Trp Pro Gln Val Tyr Ser Trp Gly Gly Gln Ser
 165 170 175
 Gln Asn Ser Asp Leu Gly Cys Leu Gly Cys Glu Leu Val Trp Ala Ser
 180 185 190
 Met Gly His Arg Gly Arg Ile Ser Trp Arg Ser Arg Thr Glu Gly Lys
 195 200 205
 Arg Asp Glu Ile Ser Asp Ser Ala Gly Ser Glu Thr Leu Ser Ala Met
 210 215 220
 Ile Lys Pro Asp Tyr Gly Thr Cys Phe Ser Leu Ser
 225 230 235

<210> 164
 <211> 193
 <212> PRT
 <213> Homo sapiens

<400> 164

Phe Gln Asp Ile His His Arg Cys Gly Arg Gly Lys Lys Thr Met Gly
 1 5 10 15
 Met Gly Ile Leu Pro Phe Ile Asn Thr Gly His Phe Asn Leu Leu Asn
 20 25 30
 Leu Ser Thr Phe Cys Asn Leu Arg Ile Phe Ile Leu Asp Ser Trp Thr
 35 40 45
 Lys Ala Leu Glu Met Ala Ser Phe Ala Arg Phe Leu Cys Ala Leu Glu
 50 55 60
 Lys Ile Pro Gly Phe Asn Ala Lys Asn Arg Gln Gln Arg Ala Gln Glu
 65 70 75 80

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Met Glu Leu Ser Gly Val Leu Leu Gln Leu Arg Thr Val Cys Tyr Ser
85 90 95

Pro Phe Lys Ile Ser Pro Asn Leu Tyr Leu Met Val Lys Asp Val Phe
100 105 110

Phe Phe Leu Leu Glu Glu Lys Val Thr Arg Ile His Gly Ser Gly Leu
115 120 125

Ile Val Leu Leu Leu Met Glu Ile His Lys Gln Phe Leu Lys Tyr Ser
130 135 140

Leu Ala Ser Glu Leu Val Trp Asn Leu Ala Val Tyr Leu Leu Asp Trp
145 150 155 160

Val Thr Thr Ala Val Ala Gly Ser Ile His Tyr Thr Arg Leu Cys Ile
165 170 175

Ser Met Met Ile Val Lys Phe Cys Glu Lys Val Leu His Leu Cys Ser
180 185 190

Leu

<210> 165

<211> 199

<212> PRT

<213> Homo sapiens

<400> 165

Leu Phe Ser Ala Phe Ser Leu Ile Leu His Leu Thr Gly Leu Val Val
1 5 10 15

Asn Ile Leu Lys Val Tyr Val Leu Ile Lys Thr Ser Ser Phe Pro Lys
20 25 30

Glu Lys Lys Ser Gln Phe Gly Leu Val Ser Leu Ser Cys Phe Leu His
35 40 45

Leu Thr Asn Val Ser Phe Ile Tyr Ser Phe Cys Ser Val Thr Phe Arg
50 55 60

Met Ile Leu Met Gly Lys Asn His Gly Ser Tyr Lys Gln Pro Phe Lys
65 70 75 80

Thr Ile Val Ile Leu Cys Ser Val Asp Ser Gly Arg Gly Phe Lys Val
85 90 95

Ile Ile Ser Leu Lys His Cys Val Asn Ile Pro Pro Thr Val Val Pro
100 105 110

Leu Gly Thr Gly Lys Ile Gln Asn Trp Pro Ala Ser Ser Leu Thr Arg
115 120 125

Val Ile Lys Val Arg Leu Leu Tyr Ile Lys Gln His Leu Asn Ala Trp
130 135 140

Cys Val Ala Ala Gly Lys Gln Pro Arg Ser Pro Ser Cys Ile Arg Gly
145 150 155 160

Leu Met Asn Val Ser Ile Ala Val Phe Ala Val Thr Arg Ser Gly Arg
165 170 175

Val Phe Pro Ser Ser Leu Asp Cys Leu Pro Met His Thr Gly Val Cys

180

185

190

Ile Gly Lys Gln Ser Arg Leu
195

<210> 166
<211> 150
<212> PRT
<213> Homo sapiens

<400> 166

Ile Trp Cys Phe His Arg Leu Lys Gly Leu Arg Cys Pro Pro Val Ala
1 5 10 15

Val Ala Cys Gly Ser Leu Cys Ser Cys Leu Pro Ser Trp Ala Gln Tyr
20 25 30

Leu Val Leu Cys Leu Gly Phe Thr Asn Ala Thr Asn Thr Tyr Ala Pro
35 40 45

Thr Leu Cys Gln Val Leu Cys Tyr Met Leu Arg Lys Gln Cys Thr Arg
50 55 60

Trp Ile Arg Phe Ser Ser Leu Trp Cys Pro Ser Ser Gly Lys Asp Arg
65 70 75 80

Leu Ser Val Phe Tyr Gly Gln Ala Tyr Arg Ala Lys Lys Thr Cys Val
85 90 95

Gly Met Gly Gln Gly Arg Tyr Pro Trp Ser Ser Pro Val Thr Gly Ile
100 105 110

Arg Leu Arg Val Ile Val Gly Arg Ala Leu Gln Ala Gly Gly Ser Ala
115 120 125

Cys Ala Arg Val Leu Arg Lys Glu Gly Glu Gln Cys Val Arg Asn Ile
130 135 140

Thr Val Val Ala Thr Gln
145 150

<210> 167
<211> 218
<212> PRT
<213> Homo sapiens

<400> 167

Ile Ile Ile Arg Ile Ile Arg Ile Leu Lys Tyr Pro Asn Asn Gln Val
1 5 10 15

Asn Lys Ala Thr Phe Tyr Gly Ile Ile His Phe Cys Phe Glu Lys Tyr
20 25 30

Thr Leu Phe Lys Tyr Tyr Cys Leu Phe Thr Gln Leu Leu Glu His Ser
35 40 45

Ser Ala Lys Ala Phe Met Ile Phe Thr Asn Leu Ala Phe Ile Phe Ala
50 55 60

Leu Leu Ser Thr Ile Thr Lys Val Ile Thr Thr Cys Ser Pro Thr Asn
65 70 75 80

Tyr Ser Asp Gly Ala Leu Arg Ile Asp Leu Tyr Leu Asn Ile Leu Trp

85

90

95

Tyr Gln Val Phe Leu His Ser Ser Arg Ile Phe His Phe Ala Tyr Ile
 100 105 110

Leu Met Met Ser Ser Arg Ile Ser Ser Leu Thr Tyr Leu Ala Asn Tyr
 115 120 125

Lys Tyr Val Ile Phe Val Lys Tyr Leu Arg Val Cys Ser Ala Ile Tyr
 130 135 140

Leu Val Ile Leu Asn Gln Ile Leu Asn Val Tyr Thr Phe Leu Met Tyr
 145 150 155 160

Asn Phe Gln Phe Phe Arg Met Arg Leu Asn Asn Cys Pro Tyr Tyr Ser
 165 170 175

Phe Ile Thr Thr Leu Ile Tyr Leu Leu Tyr Leu Gln Met Ile Tyr Lys
 180 185 190

Asn Ala Phe Leu Tyr Leu Ser Leu Ser Gln Val Leu His Ser Glu Leu
 195 200 205

Phe Phe Leu Phe Val Phe Leu Arg Tyr Ile
 210 215

<210> 168

<211> 204

<212> PRT

<213> Homo sapiens

<400> 168

Tyr Cys Glu Leu Arg Cys Tyr Ile Ser Glu Cys Asn Glu Trp Asp Ile
 1 5 10 15

Ala His Trp Leu Glu Lys Pro Pro Lys Gln Ala Ala Ser Ala Ile Glu
 20 25 30

Leu Leu Ala Trp Ser Arg His Ser Ala Ser Gly His Gly Asp Asn Ser
 35 40 45

Ser Glu Ile Asn Ser Ser Thr Lys Val Ser Asn Asp Val Ile Ser Ser
 50 55 60

Gln Arg Gln Gly Cys Pro Val Lys Gln Thr Asp Gly Gln Ser Pro Pro
 65 70 75 80

Arg Leu Lys Gly Gly Gly Glu Thr Gly Arg Lys Arg Met Arg Trp Val
 85 90 95

Arg Lys Arg Tyr Asn Leu Arg Val Thr Met Ser Ser Cys Ser Pro Arg
 100 105 110

Trp Gln Trp Val Gly Gly Pro Gly Lys Asp Cys Phe Arg Gln Met Glu
 115 120 125

Gln Cys Met Arg Arg Ser Arg Glu Lys Ser Gln Ile Val Cys Ile His
 130 135 140

Val Leu Gln Asn Arg Glu Ser Asn Arg Tyr Leu Gly Lys Lys Lys Glu
 145 150 155 160

Val Ser Leu Phe Leu Ser Leu Lys Val Gln Lys Trp Ala Phe Pro Gln
 165 170 175

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Phe Ile Cys Gln Pro His Glu Val Phe Thr Asp Leu Asp Leu Leu Ile
 180 185 190

Ser Cys Tyr Phe Ile Thr Leu Leu Glu Leu Leu Pro
 195 200

<210> 169
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 169

Lys Val Leu Ile Phe Val Leu Arg Pro Ile Tyr Thr Tyr Lys Cys His
 1 5 10 15

Pro Ser Ile Phe Leu Cys Asn Phe Leu Ser Ala Gly Leu Pro Ser Leu
 20 25 30

Met Cys Val Leu Tyr Phe Pro Tyr Ile Cys Tyr Pro Ile Thr Cys Phe
 35 40 45

Tyr Asn Cys Leu Phe Tyr Phe Pro Phe Phe Ser His Cys Leu His Ala
 50 55 60

Leu Phe Leu Val Leu Asn Ser Ile Thr Leu Ile His Cys Ser Ser Asn
 65 70 75 80

Phe Ile Leu Asn Asn Phe Pro Ile Tyr Leu Asp Ile Tyr Leu Asn Val
 85 90 95

His Ile Ser Pro Leu Ile Glu Val Cys Leu Val Ile Phe Gly Met Met
 100 105 110

Leu Asn Leu Phe Leu Trp Lys Gly Thr Asn Thr Cys Met Phe Met His
 115 120 125

Val Gln Lys Cys Ser His Arg Met Ile Ile Lys Ala Asp Leu Gly Lys
 130 135 140

Lys Thr Ser Leu Ile Phe Ile Phe His Ile Arg Phe Phe Glu
 145 150 155

<210> 170
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 170

His Gln Asn Ser Pro Ile Tyr Leu Arg Ile Asn Val Asn Phe Glu Phe
 1 5 10 15

Asp Ile Thr Met Ile Lys Gly Ala Leu Ile Phe Ser Arg Ser Tyr Lys
 20 25 30

Ile Phe Val Asn Glu Leu Ile Gly Arg Ile Cys Leu Leu Lys Ser Glu
 35 40 45

Val Gly Gly Glu Leu Lys Leu Gly Leu Ile Gly Asn Tyr Ile Trp Val
 50 55 60

Met Asn Ala Trp Gly Phe Ile Ile Pro Leu Pro Leu Pro Leu Ser Val
 65 70 75 80

Phe Glu Leu Cys His Cys Glu Asn Ile Val Leu Lys Ala Val Leu Phe
85 90 95

Phe Leu Leu Arg Gly Ser Lys Lys Ser Lys Lys Tyr Thr Gly Leu Ile
100 105 110

Glu Tyr Val Cys Ser Asn Lys Ile Pro Gly Phe Ser Phe Val Leu Ala
115 120 125

Ser Arg Asn Gln Val Gln Phe Val Ser Lys Asp Phe Ala Thr Cys Gly
130 135 140

Gly Lys Leu Leu Gln Asp Leu Ile Val His Ser Gln Arg Leu Ser Ala
145 150 155 160

Ala Arg Gln Ala Ala Phe Tyr Glu Asn Asp Asn Gln Lys Ala Gly Ala
165 170 175

Leu His Thr Gly His Ser Ser Asn Glu Ser Trp Asp Leu Asp His Gly
180 185 190

Ser Leu Thr Trp Ala Ala
195

<210> 171

<211> 176

<212> PRT

<213> Homo sapiens

<400> 171

Leu Lys Val His Val Leu Ile Tyr Ile His Gln Ile Thr Thr Thr Ser
1 5 10 15

Ser Phe Leu Phe Ile Ser Leu Leu Pro Phe Ile Ser Phe Ile His Met
20 25 30

Leu Ser Leu Asn Thr Leu Leu Leu Leu Thr Val Ile Phe Gln Ile
35 40 45

Ser Glu Lys Asn Leu Ile Leu Pro Tyr Ser Thr Phe Leu Met Leu Phe
50 55 60

Leu Phe Tyr Ala Val Leu Phe Asp Ile Ser His Arg Ala Gly Gln Leu
65 70 75 80

Ala Met Asn Tyr Ser Ser Phe Val Cys Gln Lys Ile Ser Leu Phe Leu
85 90 95

Ile Arg Ile Ile Leu Leu Asn Ala Glu Phe Gly Ser Phe Phe Val Ala
100 105 110

Thr Leu His Val Phe Ser Phe Leu Cys Val Cys Met Val Ser Glu Glu
115 120 125

Lys Asp Asn Val Ile Leu Ile Leu Phe Pro Leu Trp Ile Arg Cys Trp
130 135 140

Leu Phe Pro Leu Ser Ser Phe Phe Gln Asp Phe Leu Phe Ser Leu Val
145 150 155 160

Phe Cys Ser Leu Asn Met Ile Cys Leu Gly Gly Asp Leu Asp Leu Leu
165 170 175

<210> 172
 <211> 195
 <212> PRT
 <213> Homo sapiens

<400> 172

Ala Tyr Arg Ile Ser Thr Thr Val Phe Ala Lys Glu Lys Ser Val Val
 1 5 10 15
 Ile Lys Phe Ile Leu Trp Leu Asn Tyr Val Leu Gln Phe Val Gly Pro
 20 25 30
 Val Thr Cys Gly Arg Gln Arg Ala Val Gly His Ser Val Lys Ala Thr
 35 40 45
 Thr Arg Val Leu Ser Ile Glu Ser Leu Cys Ile Met Val Leu Ala Arg
 50 55 60
 His Cys Ser Leu Thr Ser Ile Phe Leu Ser Gln Ser Ser Leu Arg Asn
 65 70 75 80
 Ala Cys Ser Thr Gly Leu Ile Ile Leu Thr Glu Thr Ser Gly His Phe
 85 90 95
 Met Ser Tyr Gly Met Leu Ala Glu Asp Ile Lys His Arg Cys Val Gly
 100 105 110
 Ile Gly Gly Glu Ser Thr Ala Ile Phe Gln Leu Gly Ala Pro Trp Phe
 115 120 125
 Pro Glu Ile Gln Ser His Gly Val Asn Gln Thr Pro Leu Ser Gly Ala
 130 135 140
 Leu Cys Ser Thr Gln Asp Pro Thr Leu Ser Gly Lys Leu Lys Thr Lys
 145 150 155 160
 Ser Leu Leu Tyr Ile Arg Phe Ile Lys Asn Ala Thr Ile Thr Lys Ser
 165 170 175
 Leu Trp Ala Cys Val Glu Asn Ala Val Ile Lys Leu Asn Ile Lys Ala
 180 185 190
 Ser Ser Lys
 195

<210> 173
 <211> 225
 <212> PRT
 <213> Homo sapiens

<400> 173

Gln Arg Leu Thr Tyr Ser Asn Cys Ile Val Asp Trp Ala His Thr Leu
 1 5 10 15
 His Val Thr Asn Val Ser Asn Tyr Trp Ile Cys Thr Ala Leu Pro Ala
 20 25 30
 Gly Leu Arg Met Ala Cys Leu Gly Thr Tyr Ile Leu Cys Leu Gln Arg
 35 40 45
 Thr Gly His Gly Trp Arg Leu Gly Gly Pro Met Ala Asp Ala Trp Asn
 50 55 60

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Ala Thr Trp Gln Leu Trp Thr Lys Asp Ala Ala Arg His Met Val Cys
65 70 75 80

Pro Thr Pro Gly Trp Pro Ile Ala Phe Met Met Gly Leu Ala Ser Gly
85 90 95

Glu His Val Val Leu Pro Ala Gln Val Pro Gln Cys Ile Glu Gln His
100 105 110

Trp Gly Asn Thr Thr Val Gly Trp Val Pro Val Thr Ala Phe Ala Asn
115 120 125

Ile Thr His Val Thr Thr Lys Val Arg Pro Leu Thr Leu Cys Pro Leu
130 135 140

Gly Val Tyr Gly Ser Val Gly Thr Gln Ser Arg Phe Thr Tyr Pro Thr
145 150 155 160

Ala Leu Asp Ile Val Pro Gly Gly Gly Leu Met Cys Leu Pro Leu Phe
165 170 175

Ser Pro Cys Cys Pro Asp Ala Arg Ile Thr Gly Arg Cys Tyr Thr Leu
180 185 190

Ser Leu Cys Glu Cys Asn Glu Pro Pro Ala Val Leu Pro Phe Gly Ser
195 200 205

Asp Tyr Pro Trp Ser Gly Cys His Asn Cys Arg Ser Thr Gly Tyr Cys
210 215 220

Ser
225

<210> 174
<211> 169
<212> PRT
<213> Homo sapiens

<400> 174

Phe Met Ile Gln Gln Ile Lys Cys Gly Asn Tyr Leu Lys Arg Lys Lys
1 5 10 15

Lys Asn Ile Trp Glu Ala Ala Glu Met Arg Thr Ile Arg Asn Glu His
20 25 30

Phe Tyr Phe Leu Ser Phe Leu Asn Gly Ala Ser Asp Ala Val Phe Ile
35 40 45

Ala Leu Phe Phe Pro Asn Trp Asn Ile Phe Phe Leu Ile Leu Leu Val
50 55 60

Tyr Ser Leu Val Thr Lys Lys Val Phe Arg Lys Tyr His Asn Phe Pro
65 70 75 80

Asn Ser Leu Leu Ser Ala Gly Asp Tyr Glu Tyr Ile Leu Gln Asn Gly
85 90 95

Lys Gly Gly Ser Ser Gly Pro Ala Thr Ile Cys Ile Leu Lys Asp Leu
100 105 110

Val Glu Leu Lys Ser Gln Arg Lys Trp Glu Glu Leu Ser Lys Tyr Phe
115 120 125

Ile Ile Phe Phe Leu Glu Tyr Gln Val Leu Ile His His Ile Phe His

130

135

140

His Val Ser Lys Ser Phe Phe Leu Lys Lys Val Cys Ile Tyr Ile Ser
 145 150 155 160

Lys Arg Val Ser Val Val Lys Lys Asn
 165

<210> 175
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 175

Glu Asn Thr Tyr Gly Lys Glu Leu Ser Val Arg Phe Gly Ser Gln Ile
 1 5 10 15

Leu Ile Phe Asn Lys Ile Tyr Ile Cys Ser Pro Cys Thr Lys Gly Asn
 20 25 30

Ser Thr Glu Ser Met Pro Asn Ser Lys Gly Met Thr Leu Asn Leu Tyr
 35 40 45

Ser Lys Tyr Ile Gly Pro Ala Ile Leu Cys Gln Met Leu Tyr Leu Tyr
 50 55 60

Leu Ile Ala Thr Arg Thr Gly Asn Cys Ala Gln Leu His Leu Arg Thr
 65 70 75 80

Val Ser Ile Leu Lys His Thr Ser Tyr Ser Ser Ser Asp Pro His Trp
 85 90 95

Met Lys Leu Asn Gln Thr Lys Gln Lys Ser Tyr Leu Ser Pro Asn Asn
 100 105 110

Glu Arg Val Cys Arg Met His Ile Val Arg Leu Thr Asp Pro Phe Arg
 115 120 125

Gln Tyr Val Gly Phe Pro Arg Ile Leu Ser Ala Ser Lys Gln Phe Glu
 130 135 140

Phe Ser Ser Ala Leu Met Ile Trp Phe Pro His Leu Asp Gly Pro Gly
 145 150 155 160

Ser Asp Ala Arg Gly Pro His Glu Met Ser Trp Ala Phe Ile Gln Asp
 165 170 175

Pro Val Ala Pro Ala Gln Glu Asn Arg Pro Leu Arg Val Ser Gly Ser
 180 185 190

Glu Met Ala Ser Val Thr Arg
 195

<210> 176
 <211> 204
 <212> PRT
 <213> Homo sapiens

<400> 176

Leu Phe Asn Phe Val Phe Val Ala Val Val Cys Ile His Val Cys Trp
 1 5 10 15

Cys Pro Tyr Val Leu Phe Gly Val Trp Leu Phe Ser Gln Asn Gln Val

20

25

30

Thr Val Lys Ser Leu Asn Phe Ser Ile Ser Leu Leu Ser Ser Gly Thr
 35 40 45
 Val Thr Val Cys Leu Leu Leu Lys Ser Phe Val Phe Leu Thr Arg Gly
 50 55 60
 Glu Val Tyr Ser Thr Leu Thr Gly Leu Tyr Phe Gly Leu Arg Pro Tyr
 65 70 75 80
 Lys Thr Phe Leu Lys Ser Leu Ile Ile Cys His Ile Ile Lys Lys Leu
 85 90 95
 Tyr Gly Ile Phe Ser His Tyr Ile Leu Ala Thr Met Pro Val Tyr Ile
 100 105 110
 Ser Lys Gln Thr Ile Cys Gly Asn Asn Leu Lys Lys Lys Ala Ile Gly
 115 120 125
 Ser Lys Tyr Leu Ile Lys Tyr Pro Leu Glu Leu Asn Ile Ser Ser Cys
 130 135 140
 Gly Ser Ser His Thr Lys Tyr Pro Thr Leu Leu Ser Phe Arg Val Leu
 145 150 155 160
 Ala Gly Thr Gly Ser Ile Lys Asp Asn Glu Leu Lys Lys Gly Thr Ile
 165 170 175
 Tyr Lys Tyr Val Ala Arg Leu Gly Glu Thr Ser Lys Val Gly Asn Ala
 180 185 190
 Ala Gln Asp Ser Asn Lys Ser Glu Asn Leu Phe Leu
 195 200

<210> 177
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 177

His Val Thr Leu Met Ser Thr Val Phe Ser Ser Val Ala Ser Thr Pro
 1 5 10 15
 Leu Pro Asn Ser Tyr Asp Asn Ser Ala Ser Gln Thr Tyr Gly Leu Arg
 20 25 30
 Asn Pro Leu Lys Ser Gln Leu Val Met Thr Pro Lys Arg Phe Phe Ile
 35 40 45
 Ile Ile Leu Tyr Ile Asn Ile Leu Leu Glu Val His Phe Tyr Glu Asn
 50 55 60
 Asn Leu Phe Ser Lys Ile Ser Glu Lys Asn Ser Ile Ile Leu His Ile
 65 70 75 80
 Gly Ile Phe Leu Met Pro Gly Leu Ile Glu Asp Asn Ile Phe Met Ser
 85 90 95
 Thr Ser Gly Phe Asp Leu Phe Gln Tyr Val Ser Leu Val Glu Ile His
 100 105 110
 Glu Gly Asn Leu Gly Ser Ser Asp Ile Leu Glu Lys Gly Gly Val Phe
 115 120 125

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Gln Pro Phe Trp Thr Thr Val Asp Ile Val Leu Tyr Tyr Asn Lys Thr
130 135 140

Gly Glu Val Val Gly Ser Lys Leu Val Ala Thr Trp Asn Leu Lys Pro
145 150 155 160

His His Glu Leu Phe Val Ile Trp His Ile Lys Ile Tyr Leu Ser Ile
165 170 175

Leu His Phe Glu Trp Asp Pro Leu Leu Met His Leu Phe Val Thr Ile
180 185 190

Ile Ser Asn Thr Leu Val His Val Met
195 200

<210> 178

<211> 216

<212> PRT

<213> Homo sapiens

<400> 178

Ile Lys Ile Pro Ala Val Lys Leu Asp Ser Ala Cys Leu Gly Ile Phe
1 5 10 15

Lys Arg Ile Met Tyr Arg Gly Cys His Gly Asn Ser Ser Ser Gly Asn
20 25 30

Ser Val Pro Phe Val Lys Thr Leu Lys Gly Glu Asp Lys Gln Phe Gly
35 40 45

Glu Ile Thr Ala Pro Glu Ile Glu Phe Ile Cys Asn Leu Gly Ser Leu
50 55 60

Val Cys Leu Pro Ala Ile His His Val Asp Glu Lys Gln Lys Asp Lys
65 70 75 80

Lys Asp Ser His Phe Lys Ala Pro Asn Cys Gln Phe His Ser Ile Ala
85 90 95

Asp Ser Gln His Arg Arg Lys Trp Asp Asn Ala Gly Arg His Tyr His
100 105 110

Arg Thr Val Ser Ser Lys Glu Lys Pro Asn Cys Tyr Phe Ser Met Ala
115 120 125

Glu Gly Gly Cys Phe Pro Arg Gly Arg Ile Leu Phe Asn Pro Val Arg
130 135 140

Ala Gln Leu Gln Pro Ser Val Thr Gly Gln Leu Pro Pro Ser Asn Pro
145 150 155 160

Glu Gly Arg His Glu Pro Tyr Ser Arg Thr Gly Ala Cys Ser Leu Leu
165 170 175

Ser Thr Ser Cys Thr Phe Arg Ala Pro Ala Trp Asp Ala Glu Asn Ser
180 185 190

His Pro Ser Arg Ala Ala Glu Asp His Met Thr Asp His Gln Leu Phe
195 200 205

Leu Thr His Leu Ser Thr Thr Thr
210 215

<210> 179
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 179

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Ser Gln Asn Phe Asp Leu Thr Asn Gln Arg Gly Gly Leu Val Phe Phe
1          5          10          15
Tyr Leu Leu Ser Ala Phe Cys Phe Arg Leu Leu Asn Leu Tyr Ile Lys
20          25          30
Thr Cys Tyr Thr His Leu Ala Val Phe Phe Phe Ala Ala Val Thr Ser
35          40          45
Phe Trp Leu Arg Phe Phe Phe Lys Lys Met Tyr Lys Thr Leu Gly Leu
50          55          60
Ile His Cys Ser Phe Phe Val Leu Ile His Pro Gln Glu Arg Lys Trp
65          70          75          80
Leu Ser Leu Tyr Val Phe Lys Gly Leu Cys Glu Leu Leu Lys Ala Ser
85          90          95
Val Thr Ala Arg Thr Ser Val His Lys Gln Val Gln Asp Ala Ala Glu
100         105         110
Gly Val Ser Ser Leu Thr Glu Arg Gly Ile Glu Leu Phe Arg Met Phe
115         120         125
Cys Val Gly Thr Asp Arg Leu Lys Ala Thr Asp Leu Met Glu Val Trp
130         135         140
Ser Phe Gln Gln Met Ser Ser Asn Leu Thr Asn Leu Asp Leu Val Phe
145         150         155         160
Pro His Gly Pro Arg Ser Ala Ile Leu Phe Phe Cys Leu His Leu Ile
165         170         175
Ser Tyr Ala His His Cys Ala Asn Ser Arg Leu Phe Ser
180         185

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<210> 180
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 180

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Val Ala Ile Cys Gln Val Pro Thr Asp Ile Pro Asn Ile Arg Leu Thr
1          5          10          15
Pro Ser Asn Gln His Pro Glu Phe Lys Val Cys Ile His Phe Leu Tyr
20          25          30
Phe Tyr Cys Ile Arg Ile Ser Leu Asn Ser Ser Val Phe Ser Thr Phe
35          40          45
Ile Tyr Gln Pro Tyr Leu Pro Phe Cys Asn Leu Leu Phe Ser Val Ser
50          55          60
Ile Ile Phe Met Arg Leu Met His Ile Ala Val Tyr Ser Phe Leu Leu
65          70          75          80

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Leu Tyr Asn Ser Val Ile Pro Gly Met Gly Arg Gly Asn Trp Phe Gln
85 90 95

Asp Leu Cys Gly Leu Gln Asn Pro Ser Met Phe Lys Ser Leu Ile Asn
100 105 110

Glu Ala Val Leu Ala Tyr Asn Leu Cys Thr Phe Leu Arg Thr Leu Ser
115 120 125

Lys Cys Tyr Val Asn Gly Cys Phe Val Ile Cys Ile Ile Phe Ile Val
130 135 140

Met Phe Phe Leu Leu Phe Ser Pro Glu Phe Phe Phe Phe
145 150 155

<210> 181

<211> 219

<212> PRT

<213> Homo sapiens

<400> 181

Val Thr Leu Val Cys Tyr Ser Leu Met Val Arg Ser Leu Ile Lys Pro
1 5 10 15

Glu Glu Asn Leu Met Arg Thr Gly Asn Thr Ala Arg Ala Arg Ser Ile
20 25 30

Arg Thr Ile Leu Leu Val Cys Gly Leu Phe Thr Leu Cys Phe Val Pro
35 40 45

Phe His Ile Thr Arg Ser Phe Tyr Leu Thr Ile Cys Phe Leu Leu Ser
50 55 60

Gln Asp Cys Gln Leu Leu Met Ala Ala Ser Val Ala Tyr Lys Ile Trp
65 70 75 80

Arg Pro Leu Val Ser Val Ser Ser Cys Leu Asn Pro Val Leu Tyr Phe
85 90 95

Leu Ser Arg Gly Ala Lys Ile Glu Ser Gly Ser Ser Arg Asn Gly Arg
100 105 110

Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp Ala Gln Gly Thr
115 120 125

Asp Leu Gly Asn Ala Lys Val Lys Leu Gly Lys Asn Glu Leu Gln His
130 135 140

His Gln Gln Leu Val Cys Thr Gln Met Ser Ala Gly Gly Arg Gly Ala
145 150 155 160

Gln Asp Leu Leu Lys Val Ser Cys Cys Lys Gly His Phe Tyr Ile Asp
165 170 175

Val Lys Val Asn Lys Ser Met Glu Arg Ala Thr Lys Thr Lys Glu Asn
180 185 190

Phe Leu Lys Glu Ser His Trp Ser Leu Val Ile Gln Val Ser Ala Gln
195 200 205

Met Ser Pro Leu Arg Asp His Ser Cys Pro Pro
210 215

<210> 182

<211> 181
 <212> PRT
 <213> Homo sapiens

<400> 182

Gln Gly Glu Gly Gly Thr Gly Tyr Lys Arg Ser Ala Ala Ala Pro
 1 5 10 15

Ala Glu Ser Arg Arg Ala Gln His Ser Cys Pro Leu Asp Pro Ala Asp
 20 25 30

Pro Ser Arg Ala Pro Ser Val Pro Gln Ala Gln Pro Pro Gly Gly Arg
 35 40 45

Ala Glu Gly Ser Pro Gly Arg Cys Gln Gly Ala Ile Leu Glu Gly Gly
 50 55 60

Arg Glu Glu Glu Val Arg Ala Ala Met His Thr Val Ala Thr Ser Gly
 65 70 75 80

Pro Asn Ala Ser Trp Gly Ala Pro Ala Asn Ala Ser Gly Cys Pro Gly
 85 90 95

Cys Gly Ala Asn Ala Ser Asp Gly Pro Val Pro Ser Pro Arg Ala Val
 100 105 110

Asp Ala Trp Leu Val Pro Leu Phe Phe Ala Ala Leu Met Leu Leu Gly
 115 120 125

Leu Val Gly Asn Ser Leu Val Ile Tyr Val Ile Cys Arg His Lys Pro
 130 135 140

Met Arg Thr Val Thr Asn Phe Tyr Ile Gly Glu Cys Gly Pro Leu Arg
 145 150 155 160

Arg Thr Cys Cys Arg Pro Gly Gly Leu Arg Gly Pro Ser Gly Leu Gly
 165 170 175

Arg Pro Leu Ala Thr
 180

<210> 183
 <211> 227
 <212> PRT
 <213> Homo sapiens

<400> 183

Ile Ile Leu Gln Asp Asn Leu Lys Gln Tyr Leu Val His Ile Asn His
 1 5 10 15

Phe Ile Ser Ala Gly Leu Leu Ser Phe Glu Asn Tyr Phe Tyr His Leu
 20 25 30

Leu Leu Ala Thr Val Asn Leu Ser Asn Leu Val Ser His His Ser Leu
 35 40 45

Ile Pro Cys Ser Ala Leu Val Thr Met Asn Leu Ser Leu Leu Lys
 50 55 60

Tyr Ala Ile Tyr His Val Phe Phe Phe Pro Phe Ser Leu Pro Glu Ala
 65 70 75 80

His Thr Pro Ser Leu Gly Trp Leu Lys Ser His Asn Leu Thr Phe Gly

85

90

95

Leu Thr Phe Tyr Asn Ser Leu Tyr Gln Pro Gln Asn Met Ala Trp Val
 100 105 110

Met Leu Ala Leu Thr Val Leu Asp Phe Ser Asp Pro Ser Leu Leu Ile
 115 120 125

Tyr Gln Pro Leu Ser Arg Ser Phe Gly Thr Tyr Ser Asp Phe His Thr
 130 135 140

Pro Glu Leu Phe Ala Ile Leu Phe Ile Trp Lys Ser Tyr Trp Val Ile
 145 150 155 160

Phe Leu Phe Lys Tyr Asn Leu Ile Ile Thr Pro Leu Val Tyr Leu Ala
 165 170 175

Leu Ser Cys Ser Leu Tyr Phe Pro Cys Pro His Leu Asn Ser Leu Thr
 180 185 190

Gly Glu Ile Asn Tyr Arg Tyr Thr Lys Gly Pro Asp Ser Lys Arg Asn
 195 200 205

Ile Gly Lys Ile Ser Ser Pro Ser Gln Pro Gly Tyr Gln Ile Lys Asp
 210 215 220

Arg Arg Leu
 225

<210> 184

<211> 191

<212> PRT

<213> Homo sapiens

<400> 184

Pro Pro Thr Asp Ile Ser Val Cys Cys Ser Asp Gln Val Leu Gly His
 1 5 10 15

His Gln Cys Pro Val Val Met Gly His Leu Lys Leu Tyr Leu Tyr Pro
 20 25 30

Ser Ala Leu Leu Leu Asp Leu Leu His His Leu Leu His Met Asp Leu
 35 40 45

Leu His Phe Gly Cys Val Val His His Leu His Thr Leu Pro Asn Lys
 50 55 60

Asn Ile Gln Lys Pro Ser Ser Gln His His Cys Pro Gly His His Ser
 65 70 75 80

Ser Leu Phe Phe Leu Asn Pro Ser Leu His Glu Arg Gln Arg Arg Leu
 85 90 95

Thr Gly Ser Pro Leu Leu Val Asn His Met Lys Ile Lys His Ala Tyr
 100 105 110

Ser Val Leu Val Gln Gln Glu Ile Tyr Phe Gln Thr Arg Lys Ala Thr
 115 120 125

Glu Thr Leu Gly Ile Ile Leu Gly Ala Phe Ile Ile Cys Trp Leu Pro
 130 135 140

Leu Phe Ile Val Ser Leu Pro Ala Lys Ile Pro Pro Tyr Asp Ile Phe
 145 150 155 160

Ile Leu Leu Ser Phe Phe Phe Phe Phe Phe Leu Ile Pro Ser Leu Thr
 165 170 175

Leu Val Ser Gln Ala Arg Met Gln Trp Tyr Asn Leu Ser Ser Leu
 180 185 190

<210> 185
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 185

Ile Leu Pro Ala His Leu Ile Pro Leu Gly Lys Leu Trp Cys Cys Leu
 1 5 10 15

Ser Arg Thr Glu Ala Glu Gly Trp Leu Ser Pro Thr Gly Ser Tyr Ser
 20 25 30

Leu Asn Ser Ala Ser Ser Pro Arg Leu Gly Glu Thr Thr Trp Gly His
 35 40 45

Arg Val Phe Ala Arg Cys His Phe Ala Phe Gln Thr Arg Ser Trp Ser
 50 55 60

Ser Gly Phe Arg Leu Gly Leu Trp Asn Ser Gly Ala
 65 70 75

<210> 186
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 186

Cys Arg Ala His His Ser Leu Thr Ser Phe Val Ser Trp Phe Arg Tyr
 1 5 10 15

Asp Leu Pro Tyr Pro Asp His Ser Ile Asn Cys Lys Leu Pro Val His
 20 25 30

Ser Ser Leu Ser Tyr Asn Thr Phe Pro Phe Ser Gln Arg Tyr Cys His
 35 40 45

Phe Val Ser Tyr Tyr Ile Thr Tyr Tyr Val Tyr Cys Leu Leu Arg Ile
 50 55 60

Leu Cys Ser Leu Met Tyr Leu Lys Tyr Leu Gly Gln Cys Ser Val His
 65 70 75 80

Val Thr Gly Val Gln Gln Arg Leu Leu Asn Glu Ile Phe Asp Asn Cys
 85 90 95

Asp Arg Tyr

<210> 187
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 187

Ala Glu Gln Val Leu Val Ile Phe Ala Glu Gln Val Leu Asn Glu Cys


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1           5           10           15
Met Asn Lys Cys Met Asn Val Glu Met Lys Gly Asp Ala Asp Gly Asp
      20           25           30
Asp Ala Asp Gly Asp Asp Asp Ala Asp Gly Asp Asp Ala Asp Gly Asp
      35           40           45
Asp Ala Asp Gly Glu Gln Trp Pro Cys Arg Val Phe Ala Asp Leu Gly
      50           55           60
Leu Ala Ser Gly Cys Gly Gly Ser Ala Ser Gln Gly Phe Glu Phe His
      65           70           75           80
Leu Gln Cys Leu Pro Ala Met Pro Pro Trp Val Thr Phe Ile Leu Leu
      85           90           95
Pro Gly Lys Trp Gly Cys Trp Gln Pro Leu Pro Pro Gly Ile Thr Asp
      100          105          110
Thr Ala Trp Ser Gly Cys Asp Pro Phe Gly Tyr Arg Arg Gly Trp Trp
      115          120          125
Thr Ser Gln Val Gly Arg Ser Ser Leu Asp Glu Arg Pro Arg Thr Ile
      130          135          140
His Arg Arg Ala Gln Glu Ser Leu Leu Ser Pro Ser Asn Ser Thr Glu
      145          150          155          160
Pro Ala Val Asn Cys Trp Leu Leu Pro Val Thr Phe Pro Cys Pro Tyr
      165          170          175
Phe His Ser Leu Glu Ala Ala Arg Thr Thr Ala Gly Trp Pro Trp Pro
      180          185          190

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Leu Pro

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<210> 188
<211> 178
<212> PRT
<213> Homo sapiens

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<400> 188

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Ser Phe Ser Leu Gly Asn Phe Val Val Ala Ser Leu Tyr Ser Cys Cys
1           5           10           15
Phe Asn Asn Phe Val Leu Phe His Ser Phe Thr Val Thr Val Cys Val
      20           25           30
Asp Ser Phe Ser Ser Ser Val Lys Ile Met Ser Pro Glu Ser Ser Phe
      35           40           45
Ile Thr Leu Asp Arg Thr Arg Thr Leu Ser Ile Lys Ser Met Leu Phe
      50           55           60
Val Ile Thr Glu Gln Phe Ser Ala Val Ile Ser Leu Ile Val Thr Phe
      65           70           75           80
Leu Phe Ile Pro Phe Ser Leu Ser Lys Met Pro Leu Phe Val Tyr Trp
      85           90           95
Ser His Arg Ser Glu Ile Cys Glu Phe Ala Ile His Val Ser Tyr Leu
      100          105          110

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Phe Ala Asn Gly Phe His Val Ser Lys Ser Leu Phe Ser Ile Val Arg
 115 120 125

Tyr Tyr Leu Tyr Cys Phe Val Gln Asn Ile Asn Leu Val Leu Phe Ile
 130 135 140

Asp Tyr Ser Leu Val Leu Leu Leu Asn Phe Ile Gln Glu Cys Val Phe
 145 150 155 160

Leu Ser Asp Tyr Phe Phe Leu Pro Asn Cys Ile Phe Leu Arg Gly Leu
 165 170 175

Ile Ile

<210> 189

<211> 76

<212> PRT

<213> Homo sapiens

<400> 189

Pro Arg Glu Ala Lys Arg Leu Asp Ile His Ala Pro Leu Leu Ser Leu
 1 5 10 15

Pro Asp Cys His Leu Leu Met Ala Ala Ser Val Ala Tyr Lys Ile Trp
 20 25 30

Arg Pro Leu Gly Ser Val Ser Asn Cys Leu Asn Pro Leu Leu Tyr Phe
 35 40 45

Leu Ser Arg Gly Ala Lys Phe Glu Ser Gly Ser Ser Arg Asn Gly Arg
 50 55 60

Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp
 65 70 75

<210> 190

<211> 189

<212> PRT

<213> Homo sapiens

<400> 190

Ser Leu Val Ile Leu Val Cys Tyr Ser Leu Met Val Arg Ser Leu Ile
 1 5 10 15

Lys Pro Glu Glu Pro His Glu Val Gln Ala Thr Gln Pro Glu Pro Gly
 20 25 30

Pro Ser Gly Thr Ile Leu Leu Val Cys Gly Leu Phe Thr Leu Cys Phe
 35 40 45

Val Pro Phe His Ile Thr Arg Ser Phe Tyr Leu Thr Ile Cys Phe Leu
 50 55 60

Leu Ser Gln Asp Cys Gln Leu Leu Met Ala Ala Ser Val Ala Tyr Lys
 65 70 75 80

Ile Trp Arg Pro Leu Val Ser Val Ser Ser Cys Leu Asn Pro Val Leu
 85 90 95

Tyr Phe Leu Ser Arg Gly Ala Lys Ile Glu Ser Gly Ser Ser Arg Asn
 100 105 110

Gly Arg Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp Ala Gln
 115 120 125

Gly Thr Asp Leu Gly Asn Ala Lys Val Lys Leu Gly Lys Asn Glu Leu
 130 135 140

Gln His His Gln Gln Leu Val Cys Thr Gln Met Ser Ala Gly Gly Arg
 145 150 155 160

Gly Ala Gln Asp Leu Leu Lys Val Ser Cys Cys Lys Gly His Phe Tyr
 165 170 175

Ile Asp Val Lys Val Asn Lys Ser Met Glu Arg Ala Thr
 180 185

<210> 191

<211> 208

<212> PRT

<213> Homo sapiens

<400> 191

Ser His Ile Ser Pro Gly Thr Gly Cys Leu Ser Leu Pro Ala Ile Val
 1 5 10 15

Trp Ala Leu Ala Gly Ser Ser Pro Trp Glu Met Trp Ala Arg His Ser
 20 25 30

Asp Arg Ser Gln Ser Ala Gly Ala Gly Ala Phe Gly Leu Ser Ser Pro
 35 40 45

Met Glu Val Ser Glu Pro His Ser His Ser Tyr Arg Arg His Gln Asn
 50 55 60

Ser Leu Tyr Val Glu Pro His Lys Val Glu Thr Val Asn Ser Cys Arg
 65 70 75 80

Asn Leu Leu Trp Asn Thr Thr Val Phe Glu Ser Gly Ser Asp Leu Thr
 85 90 95

Ser Ser Val Thr Leu Gly Lys Leu Leu Leu Pro Trp Thr Pro Thr Thr
 100 105 110

His Leu Asp Val Gly Asn Asn Asp Thr Glu Phe Ile Gly Leu Arg Leu
 115 120 125

His Leu Met Gly Thr Leu Glu Gln Cys Gln Thr Gln Thr Thr Asn Ala
 130 135 140

Gln Lys Leu Val Phe Ile Ile Ala Phe His Phe Asn Cys Gly Leu Leu
 145 150 155 160

Gly Leu Asn Cys Val Pro Ser Lys Arg Tyr Ile Gly Val Leu Thr Leu
 165 170 175

Ser Thr Ser Glu Cys Asp Cys Thr Trp Arg Leu Gly Leu Tyr Arg Asp
 180 185 190

Asn Arg Val Lys Met Glu Leu Gln Gly Trp Ser Leu Ile Gln Cys Asp
 195 200 205

<210> 192

<211> 211

<212> PRT

<213> Homo sapiens

<400> 192

Ile Leu Ser Ser Ser Leu Cys Leu Arg Pro Pro Ser Pro Glu Pro Ser
1 5 10 15

Glu Leu Ser Ala Ser Ser Leu Phe Ala Pro Pro Cys Cys Arg His Arg
20 25 30

Arg Phe Gly Ser Val Pro Ala Glu Val Gly Lys Asp Thr Trp Asn Ser
35 40 45

Gly Arg Pro Leu Cys Ser Pro Leu Ala Arg Ser Lys Ala Val Lys Asp
50 55 60

Thr Ala Ser Pro Gly Ser Cys Ser Ser Leu Asn Pro Thr Val Asp Leu
65 70 75 80

Val Gly Arg Leu Arg Ala Gln Ile Cys Arg Cys Ser Ile Val Ser Ser
85 90 95

Val Ser Cys Pro Leu Leu Pro Pro Gly Val Asp Ser Cys Thr Val His
100 105 110

Pro Thr Pro Ala Phe Pro Ser Phe Leu Ile Ser Pro Val Ile Phe Pro
115 120 125

Val Ala Leu Leu Cys Trp Cys Pro Val Arg Ser Cys Gly His Lys Arg
130 135 140

Leu His Gly Pro His Pro Gln Leu Gly Glu Ser Pro Ser Trp Val
145 150 155 160

Leu Trp Thr Val Lys Lys Asp Gly His Val Gly Ser Val Glu His Glu
165 170 175

Val Val Gln Asp Leu Gly Gly His Arg Ser Cys Leu Pro Ala Ser Arg
180 185 190

Ala Leu Pro Pro Phe Gly Ser Leu Leu His Leu Gly Lys Arg Phe Val
195 200 205

Pro Thr Pro
210

<210> 193

<211> 208

<212> PRT

<213> Homo sapiens

<400> 193

Asn Met Ser Tyr Ser Ser Arg Val Asn Ser Leu Leu Leu Phe Ser Phe
1 5 10 15

Asn Phe Ser Tyr Ile Ile Phe His Ile Asn Phe Arg Ile Ser Leu Val
20 25 30

Trp Gly Val Ile Gln Val Asn Leu Ile Lys Phe Gly Glu Gly Phe Thr
35 40 45

Ile His Leu Ile Asn Phe Gly Arg Val Val Met Leu Met Phe Ser His
50 55 60

Tyr Ile Leu Lys Cys Asp Ile Ser Phe His Leu Phe Val Leu Asp Gln
65 70 75 80

Ala Leu Val Ala Ser Ser Glu Asn Leu Leu Asn Ser Arg Asn Asn Phe
85 90 95

Phe His Leu Leu Thr His Phe Leu Thr Ile Cys Phe Leu Pro Leu Val
100 105 110

Leu Cys Leu Val Asn Tyr Phe Leu Leu Ile Ser Pro Leu Gln Ile Leu
115 120 125

Tyr Ala Ile Arg Lys Gly Val Thr Asp Leu Val Ile Glu Thr Gln Tyr
130 135 140

Thr Phe Val Gly Met Met Lys Ala Leu Gly Ile Phe Ser Tyr Tyr Val
145 150 155 160

His Leu Ile Ile Leu Lys Leu Ser Ser Tyr Val Glu Pro Ile His Lys
165 170 175

Ser Arg Ser Phe Asp Phe Lys Ser Cys Ile Phe Pro Tyr Phe Gln Tyr
180 185 190

Leu Ile Gly Glu Val Thr Cys Asn Ala Ile Val Leu Gln Phe Tyr Ile
195 200 205

<210> 194

<211> 213

<212> PRT

<213> Homo sapiens

<400> 194

Met Thr Gly Asn Ala Val Val Leu Trp Leu Leu Gly Phe Arg Met Arg
1 5 10 15

Arg Asn Ala Phe Ser Ile Tyr Ile Phe Asn Leu Ser Met Ala Asp Phe
20 25 30

Leu Phe Leu Arg Ser His Ile Ile Arg Phe Pro Leu Ser Leu Ile Asn
35 40 45

Ile Leu His Pro Ile Phe Lys Ile Leu Ser Pro Val Met Met Phe Ser
50 55 60

Tyr Leu Ala Ser Leu Ser Phe Leu Ser Ala Met Ser Thr Glu Arg Cys
65 70 75 80

Leu Tyr Val Leu Trp Pro Ile Trp Arg Cys Arg Pro Arg Pro Tyr Thr
85 90 95

Cys Gln Arg Ser Cys Val Ser Cys Ser Gly Pro Cys Leu Cys Cys Gly
100 105 110

Ala Ser Trp Ser Gly Val Ser Val Thr Ser Cys Leu Val Val Leu Ile
115 120 125

Leu Phe Gly Val Lys His Gln Ile Ser Ser Gly Gly Phe Phe Tyr Val
130 135 140

Trp Leu Ser Val Val Pro Ala Trp Ser Cys Trp Ser Gly Ser Phe Val
145 150 155 160

Gly Pro Gly Arg Cys His Pro Gly Cys Thr Pro Ser Cys Ser Arg Trp

165

170

175

Ser Ser Ser Phe Cys Gly Leu Pro Phe Gly Ile Arg Phe Phe Leu Phe
 180 185 190

Ser Trp Asn His Val Asp Leu Glu Val Leu Tyr Cys His Val His Leu
 195 200 205

Val Ser Ile Phe Leu
 210

<210> 195

<211> 190

<212> PRT

<213> Homo sapiens

<400> 195

His Thr His Thr His Thr His Thr His Thr His Thr Arg Thr
 1 5 10 15

His Pro Ile Asn Gly Phe Pro Gly Gly Arg Ala Ser Val Pro Leu Thr
 20 25 30

Ala Gly Pro Pro Gly Pro Ala Lys Gly Ala Lys Ser His Ser Asp Ile
 35 40 45

Asn Ser Trp Phe Gln Ser Asn Lys Gln Ser Asn Val Arg Lys Val Ile
 50 55 60

Arg Leu Lys Gly Phe Glu Gly Lys Ser His Gln Lys Val Lys Leu Asp
 65 70 75 80

Pro Thr Ser Thr Ser Trp Met Ser Tyr Leu Ile Ser Leu Ala Ser Val
 85 90 95

Phe Ser Pro Ile Lys Lys Pro Glu Asp Leu Pro His Gln Ala Val Leu
 100 105 110

Lys Leu Asn Glu Leu Ile Pro Val Gln Ala Glu Asn Ser Ile Tyr Ser
 115 120 125

Ile Ser Gln Leu Leu Leu Leu Leu Leu Leu Cys Thr Trp Leu Ser
 130 135 140

Leu Phe Ser Phe Ile Asn Tyr Tyr Ser Leu His Leu Phe Ala Ala Thr
 145 150 155 160

Trp Ser Ser Trp Asn Pro Phe Thr Ala Tyr Ser Arg Glu Thr Gly Glu
 165 170 175

Gly Arg Cys His Leu His Ser His Trp Asp Ala Pro Ala Pro
 180 185 190

<210> 196

<211> 138

<212> PRT

<213> Homo sapiens

<400> 196

Glu Asn Leu Phe Phe Lys Gly Lys Phe Val Ser Asn Thr Leu Pro His
 1 5 10 15

Ser Phe Ile Arg Gln Cys Phe Leu Cys His Phe Ser Ala Arg Ile Leu

20

25

30

Leu Leu Gly Ile Glu Phe Thr Val His Ser Ser Val Leu Ser Val Leu
 35 40 45

Gln Lys Tyr Tyr Leu Phe Pro Ser Asn Leu His Gly Phe Arg Trp Lys
 50 55 60

Ile Cys Cys Gly Leu His Tyr Cys Phe Ser Val Arg Asn Val Pro Phe
 65 70 75 80

Phe Leu Cys Leu Leu Ser Arg Phe Leu Ile Phe Phe Phe His Phe Gln
 85 90 95

Lys Leu Asn Val Phe Gly Cys Ile Leu Phe Arg Val Cys Ser Cys Phe
 100 105 110

Leu Glu Tyr Leu Gly Leu Cys Ser Ser Ile Leu Ile Trp Glu Gly Ser
 115 120 125

His Tyr Phe Leu Ile Val Phe Ser His Ile
 130 135

<210> 197

<211> 175

<212> PRT

<213> Homo sapiens

<400> 197

Ser Asp Ser Pro Ile Tyr Asn Leu Cys His Thr Asn Arg Leu Asn Pro
 1 5 10 15

His Cys Glu Phe His Thr Cys Val Asp Val Ser Thr Ser Arg Asp Gly
 20 25 30

Cys Ile Phe Phe Ile Phe Leu His Thr Phe Leu Glu Tyr Phe Ile Ser
 35 40 45

Met Val Leu Gln Ile Leu Leu Pro Thr Tyr Cys Gly Phe Lys Ala Met
 50 55 60

Glu Lys Thr Lys Ser His Arg Ser Lys Tyr Cys Arg Lys Gln Asn Ser
 65 70 75 80

Trp Val Asp Leu Ile Phe Leu Tyr Lys Asn Tyr Gly Tyr Gly Tyr Met
 85 90 95

Tyr Leu Cys Met Ser Val Ala Lys Ile Asn Lys Met Asn Thr Phe Asn
 100 105 110

Leu Arg Val Pro Ile Ile Gln Phe Thr Ser Phe Cys Pro Thr Thr Leu
 115 120 125

Glu Ala Lys Thr Leu Val Glu Thr Leu Met Cys Phe Thr Ser Asn Ser
 130 135 140

Ser Leu Ala Leu Asn Ile Pro Leu Phe Val His Pro Leu Ser Asp Ala
 145 150 155 160

Ile Leu Leu Val Lys Gln Gln Thr Ser Thr His Arg Lys Leu Glu
 165 170 175

<210> 198

<211> 177

<212> PRT

<213> Homo sapiens

<400> 198

Ser Arg Lys Gly Arg His Trp Arg Gly Cys Leu Leu Thr Leu Leu Met
1 5 10 15

Leu Val Ala Val Val Val Cys Phe Ser Pro Tyr His Leu Asn Ile Lys
20 25 30

Gln Phe Met Ala Arg Gly Met Leu His Leu Pro Ser Cys Ala Glu Arg
35 40 45

Arg Ala Phe Leu Leu Ser Leu Gln Ala Thr Val Ala Leu Met Asn Met
50 55 60

Asn Cys Gly Ile Thr Pro Ser Phe Thr Ser Leu His Pro Pro Ile Thr
65 70 75 80

Gly Asn Gly Ser Trp Ala Phe Ser Ser Lys Gly Leu Pro Pro Pro Pro
85 90 95

Pro Pro Pro Pro Pro Gln Glu Lys Leu Leu Gln Lys His Gln Val Ser
100 105 110

Pro Arg Pro Glu Val Leu Cys Ser Arg Ser Thr Trp Ser Asn Val Ser
115 120 125

Phe Ala Leu Leu Tyr Leu Gly Arg Gly Pro Ala Leu Gly Tyr Ser Tyr
130 135 140

Asn Leu Gly Lys Arg Phe Phe Lys Glu Lys Asn Thr Glu Glu Ile Gln
145 150 155 160

Asn Ala Gly Arg Gly Gly Ser Arg Leu Ser Pro His Phe Gly Arg Pro
165 170 175

Arg

<210> 199

<211> 202

<212> PRT

<213> Homo sapiens

<400> 199

Val Tyr Glu Cys Tyr Ile Phe Gly His Cys Trp Asp Val Ala Ser His
1 5 10 15

His Leu Thr Ser Leu Asn Leu Ser Gly Leu Thr Cys Glu Met Gly Ala
20 25 30

Leu Thr Phe Thr Cys Leu Gln Ala Cys Ser Gln Ile Arg Cys His Leu
35 40 45

Lys Asp Phe Ser Ser Pro Gly Asp Phe Lys Arg Leu Leu Arg Gly His
50 55 60

Phe Phe Ser Gly Cys Gly Arg Ser Met Ile Arg Val Ile Arg Met Gly
65 70 75 80

Leu Leu Glu Glu Arg Gly Gly Gln Arg Leu Leu Phe His Phe Met Ala
85 90 95

Pro Ser Gly Gln Arg Thr Asp Ser Ala Thr Ala Ala Thr Arg Ala Leu
100 105 110

Pro Gly Leu Trp Ser Gln Leu Ser Gln Gln Glu Phe Gln Lys Ala Lys
115 120 125

Gly Ser Glu Leu His Pro Ser Phe Leu Ala Asp Cys His Pro Ala Ser
130 135 140

Ser His Ser Pro Gln Gly Tyr Val Met Leu Ala Leu Lys Ala Ser Leu
145 150 155 160

Gly Arg Gly Cys Ile Cys His Pro Leu Pro Cys Lys Ile Phe Glu Val
165 170 175

Gln Arg Ala Leu Gln Ala Glu Pro His Pro Leu Leu His Ser Pro Ser
180 185 190

Val Gly Met His Ser Pro Ser Val Gly Met
195 200

<210> 200
<211> 175
<212> PRT
<213> Homo sapiens

<400> 200

Leu Pro Pro Pro Pro Ile Leu Val Pro Thr Val Val Thr Glu Glu Ile
1 5 10 15

Phe Ser Ser Ser Thr Ala Thr Leu Lys Gly Pro Ser Val Pro Phe Gly
20 25 30

Gly Leu Gly Ile Asp Leu Pro His Arg Ser Ser Leu Ala Pro Met His
35 40 45

Thr Phe Arg Asp Leu Arg Thr Gly Pro Leu Cys Leu Pro Leu Ser Leu
50 55 60

Leu Val Arg Lys Asp Trp Pro Ala Cys Leu His Pro Gln Gln Ser Ile
65 70 75 80

Ala Thr Ala Pro Ser Cys Ala Thr Glu Glu Leu Thr Asp Thr Thr His
85 90 95

Thr Val Tyr Ser Arg Arg Asn Pro Met Gly Pro Ile Ile Leu Cys Pro
100 105 110

Pro Trp Ile Lys Thr Lys Val Leu Tyr Ala Thr Asn Thr Thr Ala Ile
115 120 125

Ser Thr Gly Lys Ser Leu Ser Leu Gln Lys Pro Ile Gln Lys Pro Arg
130 135 140

Arg Ser Asn Cys His Thr Lys Tyr Thr Asp Thr Asn Leu Arg Thr Glu
145 150 155 160

Thr Glu Asn Lys Glu Thr Trp His Phe Leu Lys Glu His Asn Asn
165 170 175

<210> 201
<211> 178
<212> PRT

<213> Homo sapiens

<400> 201

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Leu Gly Phe Leu Leu Thr Asp Val Gln Ser Val Phe Gly Tyr Leu Gln
1          5          10          15

His Glu Thr His Tyr Cys Ser Ala Thr Ile Gly Arg His Trp Pro Ala
          20          25          30

His Pro Leu Met Arg Cys Trp Asn Pro Phe Phe Ile Leu Lys Tyr Leu
          35          40          45

Ile Asp Lys Asn Cys Val Cys Ser Arg Cys Asp Val Met Leu Arg Ser
          50          55          60

Arg Tyr Ile Gln Val Tyr Leu Pro Gln Ser Asn Leu Thr Asn Leu Ser
          65          70          75          80

Pro Pro Met Ile Thr Ile Met Leu Arg Gly Gly Ser Glu Asp Thr Lys
          85          90          95

Asp Leu Leu Ser Tyr Gln Ile Ser Ser Gln Gln Tyr Ser Ile Ile Asn
          100          105          110

Thr Val Thr Met Leu Cys Ile Arg Ser Pro Glu His Val Thr Glu Gly
          115          120          125

Leu Tyr Leu Leu Thr Asn Ile Ser Pro Ala Leu His Glu Trp Met Val
          130          135          140

Ser Ile Phe Gln Thr His Ser Glu Asp Phe Ala Trp Leu Ala Thr Ser
          145          150          155          160

Ile Ser Pro Glu Lys Val Gln Lys Ser Arg Pro Ser His Arg Asn Ser
          165          170          175

Asp Ala

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<210> 202

<211> 196

<212> PRT

<213> Homo sapiens

<400> 202

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Tyr Gly Ala Leu Tyr Lys Tyr Lys Gln Gln Ser Leu Thr Phe Leu Ser
1          5          10          15

Leu Gln Leu Leu Thr Leu Ala Gly Ser Arg Ile Lys Met Pro Asn Ser
          20          25          30

Thr Gln Lys Pro Trp Pro Val Ser Leu Pro Lys Met Glu Phe Arg Leu
          35          40          45

Thr Ala Gly Asn Arg Asn Cys Ser Phe Lys Ala Ile Ala Trp Ala Met
          50          55          60

Val Pro Ile Phe Val Asn Ile Gly Phe Cys Leu Asn Ser Val Ser Arg
          65          70          75          80

Val Asp Tyr Ile Ile Cys Lys Val Cys Lys Met Lys Val Trp Gly Ser
          85          90          95

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Ser Ser Lys Tyr Lys Gln Lys Val Leu Leu Ser Val Ser Lys Tyr Lys
 100 105 110

Met Phe Pro Leu Ser Val Ile Tyr Phe Ser Thr Cys Tyr Val Phe Gln
 115 120 125

Phe Val Cys Phe Val Phe Pro Leu Leu Phe Tyr Val Leu Leu Cys Lys
 130 135 140

Lys Ile Lys Asn Leu Asn Tyr His Asn Lys Phe Ser His Ser Phe Leu
 145 150 155 160

Cys Cys Ala Val Ser Ile Asn Ala Asn Ile Lys Ala Phe Asn Leu Tyr
 165 170 175

Ile Glu Ser Gln Lys Leu His Asn Thr Tyr Phe Ile Val Cys Thr Cys
 180 185 190

Met Tyr Ile Leu
 195

<210> 203
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 203

Ser Gly Val Ile Asn Leu Leu Tyr Ile Cys Val Tyr Val Cys Ile Phe
 1 5 10 15

Leu Pro Asn Arg Cys Asn Thr Lys Tyr Ser His Gly Val Ile Thr Phe
 20 25 30

Ser Gln Leu Thr Leu His Pro Tyr Ile Ile Glu Glu Arg Ser Thr Ser
 35 40 45

Ile Leu Phe Leu Leu Val Ile Ala Leu Met Ser Glu Tyr Lys Leu Asp
 50 55 60

Ser Ser Val Ala Asn Asn Thr Arg Gln Ser Lys Asp Phe Ser Cys Cys
 65 70 75 80

Arg His Ile Phe Leu Ile Tyr Trp Lys His Lys Cys Val Pro Pro Asn
 85 90 95

Phe Ile Val Asp Arg Asn Met Lys Asn Phe Ile Lys Leu Lys Thr Gly
 100 105 110

Ser Leu Pro Asp Leu Pro Val Ile Leu Pro Thr Leu Gln Ile His Pro
 115 120 125

Ile Val Pro Ala Ser Phe Thr Met Lys Lys Tyr Glu Thr Cys Leu Thr
 130 135 140

Trp Ser Leu Cys Leu Arg Glu Thr Cys Val Cys Leu Trp Asn Thr Leu
 145 150 155 160

Thr Lys Ile Pro Ala Leu Val Asp Lys Thr Gly Phe Gln Ser Ser Leu
 165 170 175

Asn Ser His Phe Val Leu Asn Lys Val Val Ser Lys Thr Arg Cys Ser
 180 185 190

Lys Tyr Tyr Cys Ser Asp Ala Ile Ser Lys Thr Val Leu Ile Pro Cys

195

200

205

Gly Arg Glu Asn
210

<210> 204
<211> 172
<212> PRT
<213> Homo sapiens

<400> 204

Asn Lys Ile Val Phe Ile Phe Ser His Asp Cys Leu Trp Arg Lys Ile
1 5 10 15

Ser Lys Asn Leu Pro Lys Thr Asn Ala Ile Leu Ser Arg Val Lys Glu
20 25 30

Thr Arg Ser Ser Leu Phe Cys Thr Leu Tyr Phe Cys Ile Ser Val Leu
35 40 45

Phe Leu Tyr Gly Ser Asn Asp Gln Leu Glu Ile Lys Ile Leu Lys Gln
50 55 60

His Gln Lys His Lys Met Leu Ser Tyr Lys Ser Asn Lys Thr Tyr Thr
65 70 75 80

Asp Ser Val Pro Lys Thr Val Asn Val Tyr Leu Lys Asn Gln Arg Arg
85 90 95

Ala Glu Gln Arg Ala Thr Ser Cys Leu Leu Leu Glu Asn Ser Ile Glu
100 105 110

Leu Arg Tyr Lys Phe Pro Gln Ser Asp Leu Asp Ala Thr Gln Phe His
115 120 125

Ser Asn Pro Ser Arg His Phe Leu Leu Lys Ser Thr Ser Cys Phe Ile
130 135 140

His Thr Lys Ile His Lys Asn Lys Lys Ala Lys Ile Leu Leu Lys Glu
145 150 155 160

Asn Lys Phe Arg Arg Leu Leu Leu Ser Asp Phe Arg
165 170

<210> 205
<211> 313
<212> PRT
<213> Homo sapiens

<400> 205

Val Pro Lys Ile Phe Ser Phe Ser Ser Ser Phe Gln Asn Tyr Phe Leu
1 5 10 15

Ile Leu Val Lys His Thr Ser Ser Asn Ile Thr Tyr Tyr Leu Val Phe
20 25 30

Thr Tyr Ile Thr His Ser Leu Asn Lys Phe Val Glu Met Ile Ile Leu
35 40 45

Lys Ile Leu Val Phe Lys Phe Met Ser Ser Gln Lys Leu Leu Pro Arg
50 55 60

Ile Ser Ile Leu Asn Ile Trp Ile Asn Ile Leu Phe Tyr Thr Pro Tyr

65 70 75 80
 Asn Ile Leu Leu Ala Ile Ile Ile Phe Phe Arg Ile Cys Ser Thr Ser
 85 90 95
 Asn Phe Phe Asp Phe Leu Ile Leu Lys Arg Ile Ile Tyr Ala Asn Gln
 100 105 110
 Gln Cys Lys Asp Phe Ser Trp Phe Thr Arg Val Lys Leu Phe Ser Arg
 115 120 125
 Met Val Gly Ser Phe Ala Tyr Ile Lys Leu Met Tyr Arg Ser Ala Ser
 130 135 140
 Ser His Ile Lys Val Gln Ser Leu Leu Lys Lys His Phe Ile Ser Asn
 145 150 155 160
 Gln Phe Val Phe Leu Tyr Thr Leu Lys Pro Phe Asn Cys Phe Tyr Phe
 165 170 175
 Ser Ile Leu Thr Ser Ile Ser Cys Tyr Ser Gln Trp Pro Ala Ser Ser
 180 185 190
 Leu Ala Ile Arg Gln Leu Phe Val Tyr Leu Ala Lys Tyr Ile His Ala
 195 200 205
 Leu Lys Ile Pro Phe Pro Asn Ile Tyr Tyr Asp Phe Phe Lys Gly Phe
 210 215 220
 Ser Phe Val Thr Met Thr Leu Lys Ala Lys Val Ser Arg Cys Cys Ile
 225 230 235 240
 Thr Val Gly Ser Thr Ile Met Tyr Gln Glu Gly Arg Glu Asn Gln Gly
 245 250 255
 Thr Phe Leu Trp Glu Tyr Pro Ile Ile Cys Gln Ile Tyr Ser Asn Ser
 260 265 270
 Leu Arg Thr Ile Thr Phe Val Phe Thr Val Phe Pro Met Gln Phe Leu
 275 280 285
 Arg Phe Ile Phe Lys Asn Phe Leu Gly Glu Met Asp Tyr Ser Leu Leu
 290 295 300
 Ser Ala Val Ile His Asn Phe Tyr Phe
 305 310

<210> 206

<211> 318

<212> PRT

<213> Homo sapiens

<400> 206

Pro Phe Tyr Tyr Ser Met Leu Val Pro Thr Ser Gly Leu Ser Thr Cys
 1 5 10 15

Cys Ser Phe Cys Leu Glu Ser Ser Ser Pro Asp Leu Leu Arg Phe Pro
 20 25 30

Leu Ser Ile Arg Val Ser Ala Val Ile His Pro Gln Arg Arg Ser Pro
 35 40 45

Asp Pro Val Lys Pro Pro Ile Pro Gln Ser Pro Tyr Val Ser Thr Ser
 50 55 60

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Leu Tyr Leu Ile Ser Gln His Leu Leu Ile Ser Leu Thr Leu His Tyr
65 70 75 80

Met Cys Cys Tyr Met Phe Val Ile Leu Ser Ser Gly Pro Cys Asn Val
85 90 95

Arg Met Ala Gln Tyr Lys Trp Gln Glu Gly Cys Arg Gly Val Asp Lys
100 105 110

Ala Glu Ser Gly Trp Gly Ser Trp Arg Asp Gly Gln Gly Pro Glu Leu
115 120 125

Arg Arg Trp Tyr Leu Gln Cys Ala Leu Asn Cys Pro Gly Met Ile Ile
130 135 140

Ser Ile Ala Ser Phe His Ser Gln Arg Cys Pro Gly Tyr Tyr Ser Cys
145 150 155 160

Ser Val Tyr Arg Ala Trp Ala Val Gly Ile Leu Phe Gln Met Gly Cys
165 170 175

Glu Ala Cys Gly Trp Phe Ala Gly Ser Asp Met Ile Leu Ala Phe Lys
180 185 190

Asp His Asp Gln Val Leu Glu Thr Leu Phe Trp Leu Leu Pro Thr Pro
195 200 205

Pro His Thr His Pro Thr Leu Leu His Cys Pro Phe Ser Leu Leu Trp
210 215 220

Gln Leu Phe Leu Phe Tyr Asn Leu Ile Leu Glu Phe Leu Gln Thr Ser
225 230 235 240

Gly Ser Gln Leu Gly Ala Ile Ser Pro Pro Arg Asp Ile Trp Tyr Phe
245 250 255

Ile Trp Arg Tyr Phe Trp Ser Gln Leu Glu Arg Val Leu Ala Ser Ser
260 265 270

Gly Arg Pro Gly Arg Leu Leu Thr Ile Leu Gln Ser Thr Glu Gln Pro
275 280 285

Tyr Thr Ile Lys Asn Asp Leu Thr Gln Asn Ala Ser Ser Pro Glu Val
290 295 300

Lys Lys Pro Cys Thr Arg Leu Ala Pro Ser Asn Arg Asn Ile
305 310 315

<210> 207

<211> 318

<212> PRT

<213> Homo sapiens

<400> 207

Ile Ser Pro Phe Tyr Tyr Ser Met Leu Val Pro Thr Ser Gly Leu Ser
1 5 10 15

Thr Cys Cys Ser Phe Cys Leu Glu Ser Ser Ser Pro Asp Leu Leu Arg
20 25 30

Phe Pro Leu Ser Ile Arg Val Ser Ala Val Ile His Pro Gln Arg Arg
35 40 45

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Ser Pro Asp Pro Val Lys Pro Pro Ile Pro Gln Ser Pro Tyr Val Ser
50 55 60

Thr Ser Leu Tyr Leu Ile Ser Gln His Leu Leu Ile Ser Leu Thr Leu
65 70 75 80

His Tyr Met Cys Cys Tyr Met Phe Val Ile Leu Ser Ser Gly Pro Cys
85 90 95

Asn Val Arg Met Ala Gln Tyr Lys Trp Gln Glu Gly Cys Arg Gly Val
100 105 110

Asp Lys Ala Glu Ser Gly Trp Gly Ser Trp Arg Asp Gly Gln Gly Pro
115 120 125

Glu Leu Arg Arg Trp Tyr Leu Gln Cys Ala Leu Asn Cys Pro Gly Met
130 135 140

Ile Ile Ser Ile Ala Ser Phe His Ser Gln Arg Cys Pro Gly Tyr Tyr
145 150 155 160

Ser Cys Ser Val Tyr Arg Ala Trp Ala Val Gly Ile Leu Phe Gln Met
165 170 175

Gly Cys Glu Ala Cys Gly Trp Phe Ala Gly Ser Asp Met Ile Leu Ala
180 185 190

Phe Lys Asp His Asp Gln Val Leu Glu Thr Leu Phe Trp Leu Leu Pro
195 200 205

Thr Pro Pro His Thr His Pro Thr Leu Leu His Cys Pro Phe Ser Leu
210 215 220

Leu Trp Gln Leu Phe Leu Phe Tyr Asn Leu Ile Leu Glu Phe Leu Gln
225 230 235 240

Thr Ser Gly Ser Gln Leu Gly Ala Ile Ser Pro Pro Arg Asp Ile Trp
245 250 255

Tyr Phe Ile Trp Arg Tyr Phe Trp Ser Gln Leu Glu Arg Val Leu Ala
260 265 270

Ser Ser Gly Arg Pro Gly Arg Leu Leu Thr Ile Leu Gln Ser Thr Glu
275 280 285

Gln Pro Tyr Thr Ile Lys Asn Asp Leu Thr Gln Asn Ala Ser Ser Pro
290 295 300

Glu Val Lys Lys Pro Cys Thr Arg Leu Ala Pro Ser Asn Arg
305 310 315

<210> 208
<211> 320
<212> PRT
<213> Homo sapiens

<400> 208

Lys Leu Thr Leu Ala Ala Tyr Thr Leu Ile Gln Cys His Leu Pro Cys
1 5 10 15

Val Ile His Asn Ile Leu Tyr Glu Ser Tyr Phe Leu Cys Val Cys Val
20 25 30

Pro Phe Phe Glu Glu Tyr Asp Leu Ser Gln Phe Phe Cys Phe Ser Leu

35

40

45

Ser Pro Phe Asn Ile Ser Arg Ala Phe Val Val Val Thr Gly Glu Thr
 50 55 60
 Thr Tyr Thr Ser Phe Leu Leu Leu Phe Cys Tyr Leu Gln Phe Cys Met
 65 70 75 80
 Thr Leu Lys Gln Lys Asn Asn Tyr Leu Thr Ile Ser Phe Val Leu Tyr
 85 90 95
 Ser Gly Phe His Ile Gln Ser Pro Phe Ile Met Leu Leu Pro Leu Phe
 100 105 110
 Ser Ser Val Phe Glu Asp Gly Lys Ile His Gln His Pro Lys Tyr Gln
 115 120 125
 Pro Glu Arg Lys Lys Glu Ser Gly Trp Arg Gln Asp Ser Phe Gln Ser
 130 135 140
 Ile Ser Ser Thr Asp His Gly Ala Ala Ala Lys Arg His Ser Lys Arg
 145 150 155 160
 Val Glu Arg Gly Lys Thr Ser Ser Leu Arg Cys Leu Pro Phe Lys Phe
 165 170 175
 Thr Ile Ile Ile Arg Met Leu Leu Glu Glu Glu Gln Gly Gln Gly His
 180 185 190
 Phe Cys Asn Met Thr Gln Lys Asn Ile Asp Leu Lys Phe Asp Thr Tyr
 195 200 205
 Glu Leu Ser Lys Cys Arg Glu Lys Leu Pro Pro Cys Cys Thr Cys Met
 210 215 220
 Cys Ala Ile His Phe Ile Leu Ile Lys Val Cys Lys His Glu Met Gln
 225 230 235 240
 Gly Thr Asp His Leu Phe Met Arg Met Gln His Ser Ser Glu Lys Val
 245 250 255
 Tyr Leu Pro Lys Thr Glu Tyr Met Phe Ile Leu Lys Phe Phe Phe Leu
 260 265 270
 Phe Leu Phe Leu Ile Val Ile Lys Tyr Lys His Lys Phe Thr Ile Leu
 275 280 285
 Ile Ile Phe Lys Tyr Thr Val Gln Tyr Val His Ser His Tyr Cys Ala
 290 295 300
 Thr Asn Phe Gln Asn Ser Phe Tyr Leu Ala Lys Met Lys Leu Tyr Thr
 305 310 315 320

<210> 209

<211> 315

<212> PRT

<213> Homo sapiens

<400> 209

Gln Pro Phe Ser Met His Ser Leu Glu Glu Lys Phe Phe Phe Phe Leu
 1 5 10 15
 Asn His Tyr Ser Ala Thr Ser Ile Ser Leu Glu Phe Leu Ser Ser Glu
 20 25 30

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Thr Leu Val Gln Val Ser Trp Gly Ile Arg Ile Val Cys Val Trp Ile
 35 40 45
 Thr Lys Tyr Tyr Arg Leu Arg Gly Glu Glu Thr Leu Trp Ser Phe Arg
 50 55 60
 Pro Thr Leu Ile Cys Leu Asp Leu Phe Cys Phe Lys Glu Ser His Leu
 65 70 75 80
 Gln Arg Thr Ala Ser Asp Ser Pro Cys Ser Val Phe Ser Gln Glu Cys
 85 90 95
 Ser Leu His Gln Pro Gln Glu Val Leu Gln Lys Glu Val Phe His Val
 100 105 110
 Gln Ile Thr Leu Arg Ser Asn Ser His His Ile Asp Phe Glu Tyr Ser
 115 120 125
 Cys Arg Lys Thr Cys Leu Tyr Gln Leu Gly Val Ser Pro Asn Leu Phe
 130 135 140
 Gly His Gly Asn Ser Phe Ser Lys Lys Thr Cys Phe Ser Ile Ser Phe
 145 150 155 160
 His Arg Lys Leu Thr Val Val Cys Val Phe Phe Gln Ile Ile His Ile
 165 170 175
 Tyr Ser Lys Leu Lys Leu His Trp Leu Phe Gly Phe Ile Asn Pro Leu
 180 185 190
 Thr Ser Val Leu Phe Phe Ser Thr Thr Cys Cys Leu Ala Thr Ser Ala
 195 200 205
 Cys Phe Val Trp Leu Asp Phe Leu Val Leu Ser Ile Gly Leu Arg Phe
 210 215 220
 Tyr Ile Leu Ser Cys Trp Asn His Pro Thr Ser Pro Ala Trp Leu Phe
 225 230 235 240
 Gly Ser Arg Leu Ser His Leu Val His Ser Ser Ala Val Asp Leu Tyr
 245 250 255
 Tyr Ser Leu Met Ser Ala Tyr Ser Leu His Leu Tyr Ser Phe Cys Leu
 260 265 270
 Glu Met Met Ser Arg Thr Gly Gln Gly Trp Tyr His Ser Ile Asn His
 275 280 285
 His Pro Leu Ile Leu Thr Val Asn Leu Pro Asn Lys Ile Phe Gln Lys
 290 295 300
 Arg Val Ser Asn Asn Pro Cys Leu Pro Leu Trp
 305 310 315
 <210> 210
 <211> 327
 <212> PRT
 <213> Homo sapiens
 <400> 210
 Arg Val Pro Ser Leu Pro Gly Pro Pro Ala Thr Val Cys Pro Val Pro
 1 5 10 15

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Ala Ser Glu Phe Ser Gln His Arg Lys Arg Gly Leu Arg Thr Ile Gln
 20 25 30
 Pro Val His Ser Arg Glu Ser Leu Ser Val Ser Gln Arg Leu Met Gly
 35 40 45
 Cys Leu Trp Cys Arg Val Thr Pro Ala Ser Pro Cys Gly Gly Cys Ala
 50 55 60
 Gly Gly Ala Arg Pro Pro Pro Cys Ala Leu Ser Leu Ala Gln Gly Gln
 65 70 75 80
 His Thr Ala His Pro Leu Phe Phe Leu Pro Phe Pro Leu Ala Gln Pro
 85 90 95
 Leu Val Val Gly Val Thr Arg Gly Ala Glu Arg Ser Trp Arg Ser Arg
 100 105 110
 Ala Cys Pro Gly Pro Val Arg Glu Gly Gly Arg Gly Gln Gln His Pro
 115 120 125
 Trp Arg Arg Glu Asp Tyr Ile Ile Phe Ile Tyr His Met Pro Lys Ile
 130 135 140
 Ala Leu Leu Arg Ala Phe Asp Ile His Pro Lys Ile Phe Lys His Tyr
 145 150 155 160
 Gly Ser Met Ser Gly Cys Ile Ser Asn Met Lys Val Glu Ala Ser Cys
 165 170 175
 Pro Ala Pro Ser Pro Leu Trp Glu Asn Phe Val His Val Leu Ser Gln
 180 185 190
 Leu Phe Gly Lys Gly Gly Pro Ser His Cys Pro Leu Gly Gly Phe Asp
 195 200 205
 Val His Cys Val Gly Arg Ser Leu Pro Ser Ile Leu Phe Tyr Phe Cys
 210 215 220
 Arg Ile Ser Ala Gln Ser Gly Ser Ala Trp Gln Phe Ser Cys Ser Ala
 225 230 235 240
 Arg Glu Val Leu Cys Pro Gly Leu Cys Asp Phe Arg Arg Arg Glu Gly
 245 250 255
 Ser Cys Arg Pro Tyr Leu Gln Trp Leu Pro Pro Gly Ile Pro Val Cys
 260 265 270
 Ser Leu Cys Thr Val Gln Arg Arg Ser Gly Ser Trp Trp Arg Asp Gly
 275 280 285
 Asp Pro Arg Thr Met Ala Ser Thr Lys Ala Gly Gly Ala Cys Asp Arg
 290 295 300
 Arg Trp Thr Met Thr Gln Val Pro Ala Arg Tyr Gly Ser Gly Leu Cys
 305 310 315 320
 Arg Glu Gly Ala His Pro Gly
 325

<210> 211
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 211

Cys Gln Phe Gly Ala Leu Gly Tyr Ala Gly Pro Val Arg Arg Val Pro
 1 5 10 15
 Ser Leu Pro Gly Pro Pro Ala Thr Val Cys Pro Val Pro Ala Ser Glu
 20 25 30
 Phe Ser Gln His Arg Lys Arg Gly Leu Arg Thr Ile Gln Pro Val His
 35 40 45
 Ser Arg Glu Ser Leu Ser Val Ser Gln Arg Leu Met Gly Cys Leu Trp
 50 55 60
 Cys Arg Val Thr Pro Ala Ser Pro Cys Gly Gly Cys Ala Gly Gly Ala
 65 70 75 80
 Arg Pro Pro Pro Cys Ala Leu Ser Leu Ala Gln Gly Gln His Thr Ala
 85 90 95
 His Pro Leu Phe Phe Leu Pro Phe Pro Leu Ala Gln Pro Leu Val Val
 100 105 110
 Gly Val Thr Arg Gly Ala Glu Arg Ser Trp Arg Ser Arg Ala Cys Pro
 115 120 125
 Gly Pro Val Arg Glu Gly Gly Arg Gly Gln Gln His Pro Trp Arg Arg
 130 135 140
 Glu Asp Tyr Ile Ile Phe Ile Tyr His Met Pro Lys Ile Ala Leu Leu
 145 150 155 160
 Arg Ala Phe Asp Ile His Pro Lys Ile Phe Lys His Tyr Gly Ser Met
 165 170 175
 Ser Gly Cys Ile Ser Asn Met Lys Val Glu Ala Ser Cys Pro Ala Pro
 180 185 190
 Ser Pro Leu Trp Glu Asn Phe Val His Val Leu Ser Gln Leu Phe Gly
 195 200 205
 Lys Gly Gly Pro Ser His Cys Pro Leu Gly Gly Phe Asp Val His Cys
 210 215 220
 Val Gly Arg Ser Leu Pro Ser Ile Leu Phe Tyr Phe Cys Arg Ile Ser
 225 230 235 240
 Ala Gln Ser Gly Ser Ala Trp Gln Phe Ser Cys Ser Ala Arg Glu Val
 245 250 255
 Leu Cys Pro Gly Leu Cys Asp Phe Arg Arg Arg Glu Gly Ser Cys Arg
 260 265 270
 Pro Tyr Leu Gln Trp Leu Pro Pro Gly Ile Pro Val Cys Ser Leu Cys
 275 280 285
 Thr Val Gln Arg Arg Ser Gly Ser Trp Trp Arg Asp Gly Asp Pro Arg
 290 295 300
 Thr Met Ala Ser Thr Lys Ala Gly Gly Ala Cys Asp Arg Arg Trp Thr
 305 310 315 320
 Met Thr Gln Val Pro Ala Arg
 325

<210> 212
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 212

His Glu Leu Ser Leu Pro Cys Gly Gln Ser Pro Val Ile Lys Lys Glu
 1 5 10 15
 His Thr Pro Ser Leu Thr Glu Thr Ser Leu Asn Lys Lys Asn Ala His
 20 25 30
 Gln Arg Asn Ile Glu Phe Lys Tyr Leu Glu Gln Met Ser Glu Ile Ser
 35 40 45
 His Lys Asn Leu Asn Arg Asn Trp Pro Ser Lys Ser Trp Glu Phe Gly
 50 55 60
 Asp Ala Asn Phe Ile Leu Ser Ile Leu Glu Gln Ser Lys Ile Asn Thr
 65 70 75 80
 Thr His Phe Ser Leu Arg Lys Ser Ala Tyr Leu Phe Asp Val Pro Ser
 85 90 95
 Gly Leu Glu Ile Pro Asn Lys Thr Leu Thr Leu Phe Ile Leu His His
 100 105 110
 Asn Ile Thr Val Asn Lys Asn Asn Leu Asn Leu Cys Ser Asn Phe Pro
 115 120 125
 Leu Trp Thr Gln Arg Lys Thr Gln Glu Lys Met Val Glu Cys Val Leu
 130 135 140
 Asn Lys Val His Tyr Leu Tyr Gln Lys Tyr Ala Val Ile Ser Thr Ser
 145 150 155 160
 Thr Pro Lys Cys Leu Phe Asn Phe Ala Met Met Tyr Lys Ile Leu Val
 165 170 175
 Thr Cys Gln Ser Ile Asn Phe Ser Gln Leu Ile Leu Lys Ala Glu Asp
 180 185 190
 Ser His His Phe Val Cys Phe Ser Val Asn Met Ile Val Phe Val Arg
 195 200 205
 Lys His Ile Tyr Pro Glu Ser Tyr Gly Pro Met Phe Leu Thr Phe Cys
 210 215 220
 Pro Arg Ser Val Cys Val Ala Ser Cys Val Cys Met Asp Val Asp Asn
 225 230 235 240
 Lys Leu Asp Ser Tyr Gln Glu Ser Lys Ile Lys Leu Leu Ser Cys Lys
 245 250 255
 Lys Phe Val Lys Tyr Val Asp Leu Ser Cys Leu Lys Leu Arg His Pro
 260 265 270
 Gly His Ser Leu Trp Arg Glu Asn Ser Pro Pro Leu His Val Asn Leu
 275 280 285
 Trp Val Gly Thr Gly Val Gln Gly Phe Arg Val Gly Leu Leu Leu Pro
 290 295 300
 Gly Met Ile Gln Lys Ile

305

310

<210> 213
 <211> 314
 <212> PRT
 <213> Homo sapiens

<400> 213

Lys Ala Asp Lys Ile Thr Phe Leu Glu Ser Ser Ile Tyr Ser Leu Ile
 1 5 10 15
 Val Phe Leu Tyr Ile Thr Leu Ser Gln Leu Trp Ser Lys Glu His Ser
 20 25 30
 Thr Glu Glu Gly Gly Ser Leu Ile Phe Pro His Leu Val Thr Pro Met
 35 40 45
 Leu Glu Leu His Glu Ile Asp Asn Tyr Tyr Tyr Ile Val Ile Ser Phe
 50 55 60
 His Val Leu Ser Phe Ser Ser Ser Leu Leu Leu Phe Phe Lys Ser Arg
 65 70 75 80
 Lys Gln Asn Gly His Gln Leu His Glu His Cys Ser Lys Lys Ile Thr
 85 90 95
 Val Arg Pro Asn Leu Asn Cys Trp Leu Pro Gly Arg Ala Ile Leu Ile
 100 105 110
 Ala Tyr Lys Asp Gln Ile Lys Tyr Gln Ser Gln Val Val Arg Cys Pro
 115 120 125
 Cys Thr Glu His Asn Ile Val Tyr Lys Asp Val Glu Leu Leu Leu Leu
 130 135 140
 Leu Trp Phe Tyr Thr Val Ala His Asp Lys Glu Leu Ile Phe Tyr Leu
 145 150 155 160
 Asn Glu Val Leu Phe Tyr Ile Thr Tyr Phe Met Phe Phe Pro Gln Glu
 165 170 175
 Ser Phe Asn Leu Leu Arg Leu Arg Asp Ser Phe Lys Cys Phe Asp Pro
 180 185 190
 His Thr Leu Phe Ala Gly Cys Arg Arg Met Cys Met Ile Leu Thr Phe
 195 200 205
 Thr Ala Asn Leu Phe Phe Trp Met Gly Tyr Cys Asn Phe Leu Leu Glu
 210 215 220
 Asp His Thr Ser Ser Ser Met Phe Arg Arg Gly Leu His Leu Trp Phe
 225 230 235 240
 His Gly Trp Thr Leu Asp Pro Leu Trp Leu Ser Lys Ile Leu His Gln
 245 250 255
 Cys Asn Ser Phe Val Asn Gly Tyr Met Ile Gln Ala Gly Pro Ile Arg
 260 265 270
 Ala Leu Pro Arg Val Leu Leu Glu Leu Leu Gly Arg Glu Ile Leu Ser
 275 280 285
 Ser Thr Lys Val Ile Phe Trp Arg Asn His Asp Gln Glu Ser Gln Cys
 290 295 300

Met Glu Asn Lys Ser Arg Glu Lys Lys Lys
305 310

<210> 214
<211> 320
<212> PRT
<213> Homo sapiens

<400> 214

Met His His Val Phe Ile Leu Trp Pro Leu Ile Asp Ser Trp Asp Val
1 5 10 15
Lys Glu Leu Ile Leu Tyr Thr Tyr Ala Asn Leu Lys Pro Ser Ile Ile
20 25 30
Ser Leu Thr Ser Pro Val Ser Ser Leu Cys Leu Cys Tyr Gln Gln Val
35 40 45
Asn Phe Ser Val Leu Pro His His Lys Pro Gln Leu Pro Leu His Met
50 55 60
Phe Pro Lys Leu Val Ala Asn Ser Val Phe Pro Gly Glu Cys Ile Lys
65 70 75 80
Tyr Pro Gly Ile His Cys Tyr Thr Val Ser Asn Gly Ser Ser Phe Ser
85 90 95
Leu Leu Trp Arg Arg Thr Pro Glu Glu Ser Thr Ser Pro Gly Pro Ala
100 105 110
Ala Ser Cys Met Gly Asn Leu Leu Leu Leu Leu Gly Phe Thr Leu
115 120 125
His Ile Leu Ser Leu Arg Lys His Thr Lys Ser Phe His Val Phe Val
130 135 140
Pro Val Pro Met Pro Leu Leu Pro Gly Ile Pro Phe Phe Tyr Ser Tyr
145 150 155 160
Ser Leu Asn Lys Leu Phe Tyr Ser Phe Ser Ser Gly Pro Leu Pro Leu
165 170 175
Ile Gln Leu Arg Asn Asn Tyr Cys Leu Ser Pro Ser Lys Leu Ile Phe
180 185 190
Cys Leu Leu Phe Ser His His Thr Leu Pro Phe Thr Ser Val Ala Tyr
195 200 205
His Phe Phe Cys Tyr Leu Thr Asn Ala Ser Val Phe Ile His Ser Pro
210 215 220
Pro Arg Leu Tyr Ser Ser Trp Val Gln Ser Ile Ser His Ser Phe Leu
225 230 235 240
Cys Tyr Leu Cys Leu Ser Gln Cys Trp Leu Gln Ser Arg Tyr Phe Arg
245 250 255
Asp Ala Ile Ile Arg Val Arg Val Val Arg Ile Gly Glu Asn Glu Asp
260 265 270
Ser Met Val Leu Arg Cys His Ala Ser Cys Lys Glu Asn Met Lys Gly
275 280 285

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His Phe Phe Phe Leu Gln Leu His Gly Leu Leu Gln Ser Leu Cys Leu
290 295 300

Leu Gly Leu Glu Leu Pro Ala Ile Ser Val Phe Val Arg Leu Leu Ile
305 310 315 320

<210> 215

<211> 317

<212> PRT

<213> Homo sapiens

<400> 215

Pro Val Asn Ala Lys Asp Ile Leu Phe Gly Leu Glu Ile Lys Leu Leu
1 5 10 15

Met Pro Ile Trp Pro Tyr Ala Leu Arg Thr Leu Leu His Asn Lys Ile
20 25 30

Ala Val Arg Val Thr Lys Trp Lys Met Asn Asn Met Tyr Arg Glu Arg
35 40 45

Ile Gln Lys Arg Asn Leu Tyr Phe Ile Phe Ser Lys Leu Pro Gln Ile
50 55 60

Cys Leu Arg Lys Leu Tyr Asp Leu Val Asn Arg Ile Leu Lys Thr Leu
65 70 75 80

Ile Tyr Lys Ser Gln Val Trp Ala Leu Val Thr Ser Leu Asn Asp Trp
85 90 95

Leu Ala Asp Asn Leu Ser Gly Ser Ser Tyr Leu Glu Ile Glu Asn Thr
100 105 110

Ser Leu Pro Phe Tyr Asn Ser Pro Gln Leu Phe Gln His Thr Gln Cys
115 120 125

Asp Lys Lys Pro Ser Gln Ala His Phe Ser Asn Asn Glu Phe Val Gly
130 135 140

Ser Phe Lys Cys Gln Gly Gln Gln Val Arg Ala Gly Ser Glu Ala Asp
145 150 155 160

Ile Phe Gly Glu His Gly Leu Ala Phe Ser Phe Leu Gly Thr Phe Val
165 170 175

Leu Trp Met Glu Ser Ile Leu Gly Gln Ala Glu Val Leu Leu Ser Trp
180 185 190

Trp Gln Asp Gly Tyr Ala Arg Gln Pro Ser Cys Leu Gln Arg Ala Cys
195 200 205

Leu Val Arg Ser Phe Gly Ile Ser Ser Asp Leu Met Asn Leu Gly Leu
210 215 220

Met Phe Ile Pro Gly Tyr Ile Ser Phe Ala Gln Val Asn Gly Tyr Val
225 230 235 240

Asp Cys His Thr Trp Val Ser Val Thr Thr Pro Gly Phe Ser Asp Gly
245 250 255

Val Ser Pro Lys Gly Pro Thr Arg Val Glu Glu Ser Gly Ser Trp Lys
260 265 270

Glu Ser Gln Gly Lys Gly Lys Gly Thr Asn Ala Arg Trp Ala Val Asn

275

280

285

Gly Ser Cys Pro Asn Phe Met Pro Glu Pro Leu Lys Gly Ile Phe Thr
 290 295 300

Leu Thr Val Gly Ile Asn Ile Gly Arg Gly Asp Ala Trp
 305 310 315

<210> 216

<211> 319

<212> PRT

<213> Homo sapiens

<400> 216

Arg Lys Lys Asp Asp Ser Ile His Val Arg Arg Asn Ser Ala Arg Met
 1 5 10 15

Gln Lys His Lys Tyr Glu Lys Arg Val Tyr Cys Phe His Asn Lys Thr
 20 25 30

Lys Thr Arg Lys Glu Ile Ala Cys Gly Lys Glu Lys Gln Ser Lys Lys
 35 40 45

Arg Lys Thr Asn Leu His Val Ala Asn Leu Phe Val Thr Phe Gln Ile
 50 55 60

His Met Ser Cys Ala Met Ile Thr Arg Gly Phe Pro Asp Lys Phe Cys
 65 70 75 80

Phe Ser Ile Ile Phe Leu Gln Leu Tyr Lys His Gly Phe Tyr Ser Asp
 85 90 95

Asn Leu Ser Phe Asp Ile Phe Phe Ile Asp Tyr Gln Arg Ile Leu Glu
 100 105 110

Thr Asn Gln Ala Gln Tyr Phe Asn Phe Gln Phe Ser Leu Pro Val Ile
 115 120 125

Leu Leu Pro His Thr Ala Ser Thr Pro Ser Trp Tyr Gln Leu Lys Lys
 130 135 140

Tyr Tyr Val Arg Met Thr Ser Val Thr Leu Val Leu Phe Ile Leu Asn
 145 150 155 160

His Ser Glu Pro Tyr His Cys Val Leu Asn Leu His Leu Thr Asp Pro
 165 170 175

Tyr Leu Cys Ser Ser Ser Ser Ala Leu Asp Leu Cys Phe Gln Ala Leu
 180 185 190

Arg Phe Tyr Asn Val Ile Asn Pro Leu Ser Leu Ile Phe Ser Ser Pro
 195 200 205

Leu Thr Cys Met Cys Val Glu Ser Val Tyr Met Leu Glu Asn Tyr Thr
 210 215 220

Thr Phe Thr Arg Phe Ile Leu Leu Val Tyr Leu Thr Leu Thr His Phe
 225 230 235 240

Tyr Ser Leu Gly His Tyr Leu Cys Met Ala Tyr Ala Glu Val Gly Ser
 245 250 255

Gly His Tyr Lys His Gln Glu Thr Ile Ser Ile Thr Pro Cys Ile His
 260 265 270

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Val His Val Val Leu Lys Tyr Asn Val Lys Tyr Arg Glu Val Thr Leu
275 280 285

Gly Leu Asn Ser Gly Val Ser Ala Arg Leu Gly Leu Ile Thr Thr Leu
290 295 300

Leu Leu Ala Asn Tyr Ala Ser Leu Asn Pro Cys Ala Ser Lys Leu
305 310 315

<210> 217

<211> 313

<212> PRT

<213> Homo sapiens

<400> 217

Trp Pro Gln Ile Ser Phe Pro Pro Tyr Val Pro Leu Val Ser Thr Asn
1 5 10 15

Leu Phe Leu Pro Tyr Trp Ser Gly Gln Cys Pro Pro Asp Thr Ala Val
20 25 30

Leu Pro Thr Gly Leu Leu Ser Ser Phe Leu Ser Val Ile Ile Leu Ala
35 40 45

Cys Leu Trp Leu Lys Ala His Leu Cys Gly Pro Gln Arg Asn Tyr Leu
50 55 60

Pro Leu His Ser Ser Ser Trp His Leu Ser Leu Met Asp Ser Tyr Tyr
65 70 75 80

Pro Leu Leu Leu Leu Cys Ala Phe Met His Ile Ile Leu Ala Pro Pro
85 90 95

Asp Gln Leu Ser Leu Gly Gln Gly Phe Asp Leu Val Pro Ile Tyr Ser
100 105 110

Ser Pro Arg Ala Ser Leu Leu His Thr Val Gly Trp Gly Lys Ile Phe
115 120 125

Ala Tyr Ala Asp Asp Leu Arg Lys Ile Ile Leu Gln Thr Gly Glu Val
130 135 140

Lys Ile Ser Leu Ser Cys Ser Ile Trp Asn Glu Leu Val Ala Gly Asn
145 150 155 160

Gln Leu Glu Val Ser Ser Glu Gly Asn Thr Trp Thr Tyr Pro Leu Leu
165 170 175

Gln Val Ser Tyr Leu Tyr Lys Asp Cys Val Pro Val Thr Asn Leu Phe
180 185 190

Leu Asn His Trp Cys Cys Tyr Leu Gln Glu Gly Leu Gly Gln Ile Cys
195 200 205

Glu Glu Thr Ser Met Tyr Thr His Pro Tyr His Leu Lys Asn Lys Phe
210 215 220

Val Cys Val Pro Leu Met Lys Tyr Glu Glu Arg Ser His Ser Phe Gln
225 230 235 240

Ser Thr Gln Ala Leu Cys Leu Gly Leu Leu Ala Thr His Ala Lys Ile
245 250 255

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Leu Tyr Gln His Phe Val Lys Pro Thr Ile Leu Thr Val Pro Ala Leu
260 265 270

Gln Pro Val Ile Asp Ser Asn Phe Asn Ser Pro Leu Val Ala Ile Ser
275 280 285

Asp Ala Gln Cys Leu Cys Leu Leu Pro Leu Cys Ile Pro Ser Pro Ala
290 295 300

Leu Asn Ser Ala Gly Cys Ile Gln Glu
305 310

<210> 218

<211> 313

<212> PRT

<213> Homo sapiens

<400> 218

Thr Cys Ser Ser Thr Asp Ser Lys Val Ile Leu Lys Ser Gln Leu Asn
1 5 10 15

Val Ile Thr Arg Cys Arg Asp Ser Arg Tyr Val Tyr Ser Glu Arg Asn
20 25 30

Cys Ser Pro Ser Val Ile Leu Ile Lys Val Lys Ser Phe Gln Asn Ala
35 40 45

Met Val Gly Gln Thr Asn Arg His Ser His Ser Lys Arg Glu Lys Glu
50 55 60

Gly Ile Leu Gln Gln Gln Gln Ser Lys Arg Ile Leu Arg Leu Gln Asn
65 70 75 80

Asn Leu Leu Leu Met Pro His Leu Pro Ile Phe Gln Ala His Leu Gly
85 90 95

Arg Arg Trp Ala Pro Lys Ala Leu Gly Val Pro Val Pro Ala His Met
100 105 110

Thr Ala Leu Thr Tyr Ser His Met Pro Gly Trp Lys Cys Pro Leu Val
115 120 125

Ala Leu Leu Val Tyr Gly Gln Arg Val Gly Leu Leu Leu Cys Gln
130 135 140

Ala Gln Pro Trp Arg Leu Phe Val Val Ala Pro Pro Leu Cys Gln Phe
145 150 155 160

Phe Ala Ala Ser Arg Leu Ser Arg Ala Ser Phe Glu Ile Cys Val Glu
165 170 175

Ser Ala Phe Pro Leu Trp Tyr Cys Thr Val Cys Pro Gly Gly Asp Asp
180 185 190

Thr Arg Thr Leu Pro Thr Phe Ile Ile Cys Ala Leu Gln Lys Gly Gly
195 200 205

His Trp Ser Pro His His Thr Trp Thr Leu Trp Ser His Ala Trp Asn
210 215 220

Asp Ala Val Leu Cys Gln Lys Ala Gly Ser Arg Asp Glu Val Ala Gly
225 230 235 240

Arg Lys Cys Ala Pro Val Gly Ile Leu Gly Pro Ser Phe Asp Leu Val

245

250

255

Leu Ser Pro Arg Pro Trp His Ala Gly Pro Val Met Gly Ala Ala Ala
 260 265 270

Val Met Met Ser Glu Met Leu Leu Val Gly Val Ile Pro Pro Leu Pro
 275 280 285

Lys Ala Pro Gly Phe Cys Ser Ser Met Leu Ile Ser Asn Gly Cys Trp
 290 295 300

Ala Thr Ser Leu Val Phe Ser Pro Lys
 305 310

<210> 219

<211> 318

<212> PRT

<213> Homo sapiens

<400> 219

His Arg Asn Ile Leu Gln Asn Phe Asn Ile Thr Val Leu Asn Ser Val
 1 5 10 15

Lys Thr Lys Asp Asn Pro Leu His Pro Asn Met Thr Ala Phe Asn Ile
 20 25 30

Leu Leu Tyr Phe Ser Leu Phe Ala Met Tyr Ile Ile Leu Gln Ser Cys
 35 40 45

Asn His Thr Gln Tyr Met Ile Leu Ser Cys Phe Pro Thr Tyr His Tyr
 50 55 60

Arg Tyr Phe Tyr Cys Tyr Ile Val Phe Met Val Val Ile Val Asn Ser
 65 70 75 80

Tyr Ala Val Ile Val His Ile Glu Val Leu Tyr Leu Leu Ser Tyr Pro
 85 90 95

Ile Ile Phe Lys Gln Phe Leu Ile Ser Phe Tyr Asn Lys His Gly His
 100 105 110

Ile Ser Asp Arg Gly Val Leu Phe His Ile Leu Thr Tyr Phe Ser His
 115 120 125

Ser Val Thr Ile Thr Pro Lys Asn Thr Asn Phe Leu Ser Leu Asp Val
 130 135 140

Tyr Phe Gln Lys Ile Phe Lys Arg Cys Ile Asn Leu Leu Cys Ser Trp
 145 150 155 160

Cys Lys Arg Pro Phe Cys His Cys Phe Leu Glu Ser Arg Ala Ser Lys
 165 170 175

Ser Arg Asp Met Trp Leu Gly Gly Arg Asn Pro Ala Trp Gly Arg His
 180 185 190

Ser Val Lys Asn Ser Ser Ser His Trp Tyr Thr Gly Phe Ile Phe Leu
 195 200 205

Cys Phe Leu Gln Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val
 210 215 220

Phe Thr Ile Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg
 225 230 235 240

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Lys Lys Lys Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr
 245 250 255
 Gly Lys Leu Cys Lys Glu Ala Gly Ser Tyr Met Ser Pro Tyr Gly Phe
 260 265 270
 Leu Leu Leu Met Asn Phe Ile Lys Lys Lys Met Arg Ile Gly Gln
 275 280 285
 Phe Gly Asn Asn Phe Lys Asn Ile Lys Pro Ile Phe Glu Tyr Phe Leu
 290 295 300
 Trp His Thr His Ile Met Pro Leu Arg Phe His Tyr Lys Ser
 305 310 315
 <210> 220
 <211> 320
 <212> PRT
 <213> Homo sapiens
 <400> 220
 Ile Ile Pro Ser Val Ile Phe Phe Tyr Cys Arg His Cys Lys Ser Leu
 1 5 10 15
 Asn Leu Asp Lys Ser Tyr Ser Gly Gln Asn Lys Asn Phe Thr Val Ile
 20 25 30
 Asn Val Cys Ser Cys Thr Cys Glu Val Lys Ser Phe Ser Leu Leu Ser
 35 40 45
 Asn Ser Tyr Val Pro Asn Ile Phe Ser Lys Phe Leu Lys Thr Tyr Asn
 50 55 60
 Gly Glu Lys Asn Asn Pro Phe Ser Ser Pro Ala Ser Leu Met Lys Asn
 65 70 75 80
 Ser His Phe Ser Leu Phe Leu Leu Phe Leu Leu Val Val Phe His Ile
 85 90 95
 Ser Cys Leu Ser Ala Val Ser Cys Phe Met Gln Phe Arg Pro Tyr Leu
 100 105 110
 Leu Thr Ser Leu Ser Phe Gln Tyr Lys Asp Ser Cys Ile Phe Ser Phe
 115 120 125
 Asn Phe Thr Phe Leu Asn Ser Pro Phe Pro Phe Cys Asp Pro Gly Ile
 130 135 140
 Ser Gly Val Leu Phe Phe Phe Ile Leu Pro Asp Phe Ile Tyr Ile Cys
 145 150 155 160
 Val Tyr Ser Phe Leu Leu Phe Phe Lys Leu Lys Thr Cys Leu Ser Ser
 165 170 175
 Lys Ser Gly Ser Phe Phe Phe Ser Trp Arg Pro Leu Ser Gln Asn Pro
 180 185 190
 Leu Ser Phe Cys Phe Asn Glu Asp Tyr Met Leu Ser Leu Trp Leu Pro
 195 200 205
 Ser Cys His Trp Ser Ser Ser Leu Cys Cys Tyr Pro Gly Leu Lys Leu
 210 215 220

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Leu Phe Leu Asp Pro Ile Leu Ser Leu Ser Trp Phe Ile Thr Leu Phe
225 230 235 240

Cys Trp Gly Thr Ser Ser Cys Met Trp Asn Val Met Ser Ala Ser Leu
245 250 255

Cys Phe Lys Met Tyr Ile Phe Cys Pro Leu Phe Asp Leu Ala Glu Asn
260 265 270

Arg Ile Leu Asp Cys Lys Ile Gln Lys Leu Leu Gln Arg Leu His His
275 280 285

Arg Gln Lys Asn Leu Cys Thr His Phe Pro Pro Thr Ser Ser Pro Pro
290 295 300

Ala Ala Arg Ser Asn His Glu Ser Phe Cys Gln Asn Arg Phe Ala Tyr
305 310 315 320

<210> 221

<211> 318

<212> PRT

<213> Homo sapiens

<400> 221

Cys Ile Lys Val Phe Ile Leu Lys Gly Lys Ala Thr Met Ile Ala Gln
1 5 10 15

Leu Trp Tyr Ile Ile Ile Ser His Ile Ile Phe Leu Leu Leu Glu Lys
20 25 30

Gly Ile Tyr Asp Phe Ser Arg Met His Thr Glu Lys Pro Leu Cys Ile
35 40 45

Ile Leu Cys Glu Ser Lys Leu Cys Thr Tyr Phe Glu Val Ile Cys Ile
50 55 60

Leu Cys Arg Arg Lys Glu Asn Asn Leu Leu Tyr Phe Val Cys Gly Ile
65 70 75 80

Gly Asn Val Phe Leu Thr Lys Pro Lys Asn Ile Ser His Ser Lys Gly
85 90 95

Lys Met Gly Leu Asn Glu Lys Met Val Asp Leu Lys Tyr Gly Gly Arg
100 105 110

Phe Phe Trp Gly Thr Leu Asp Leu Ile Met Phe Phe Ser Ile Pro Phe
115 120 125

Leu Gln Met Phe Ile Ile Leu Leu Leu Phe Ile Tyr Ala Ala Ile Ile
130 135 140

Tyr Val Cys Ser Cys Phe Ser Cys Ser Gln Thr Leu Tyr Asn Val Ile
145 150 155 160

Ile Gln His Glu Ser Phe Ser Ile Leu Leu Phe Leu Val Asn Ile Ile
165 170 175

Ile Trp Gly Tyr Trp Cys Thr His Cys Gln Phe Ile His Phe Asn Tyr
180 185 190

Ser Thr Gly Phe Trp Ser Met Asn Ile Ser Tyr Phe Ile Tyr Leu Tyr
195 200 205

Pro Ile Asp Val Tyr Leu Val Pro Ile Phe Ala Val Lys Asn Asn Ala

210

215

220

Ala Ile Lys Pro Ser Gly Ile Cys Phe Ser Lys Cys Ile Pro Arg Ser
 225 230 235 240

His Arg Phe Ser Gly Cys His Ser Leu Lys Leu Leu Gly Lys Thr Val
 245 250 255

Arg Ile Leu Gly Asn Leu Leu Asn Leu Thr Trp Leu Asn Phe Leu Ala
 260 265 270

Gln Met Arg Val Val Leu Asp Leu Ile Lys Asn Met Val Ile Phe Cys
 275 280 285

Glu Thr Leu Ala Asn Tyr Asp Asn Lys Trp Ser Leu Gly Ile Ser Val
 290 295 300

Ile Thr Ala Ile Lys Arg Gly Leu Lys Tyr Pro Lys Glu Lys
 305 310 315

<210> 222

<211> 317

<212> PRT

<213> Homo sapiens

<400> 222

Asn Tyr Leu Ser Asp Cys His Ser Phe Met Glu Leu Ser Val Asn Lys
 1 5 10 15

Val Leu Leu Tyr Val Asn Met Arg Leu Ile Phe Phe Leu Ser Leu Leu
 20 25 30

Phe Gly Leu Tyr Phe Phe Gln Val Arg Ala Ile His Gly Ser Ala Ser
 35 40 45

Thr Asp Gln His Leu Leu Ser Tyr Phe Ala Ile Trp Leu Pro Gly Leu
 50 55 60

Arg Glu Cys Phe Phe Asn Leu Tyr Trp Trp His Cys Trp Leu Leu Ile
 65 70 75 80

Leu Leu Phe Val Leu Ala Arg Leu Leu Phe Lys Arg Arg Val Ile Asn
 85 90 95

Ser Val Leu Arg Ala Glu Val Lys Tyr Arg Met Glu Leu Glu Glu Asn
 100 105 110

Glu Ala Ser Ile Ser Val Lys Lys Ser Phe Ile Lys Ala Val Gly Asp
 115 120 125

Arg Glu Leu Gly Val Thr Ile Leu Val Pro Ile Val Met Val His Pro
 130 135 140

Gly Lys Ile Gln Gly Lys Arg Glu Ser Leu Trp Lys Ser Phe Gly Cys
 145 150 155 160

Val Leu Ser Cys Phe Arg Lys Leu Ala Asn Phe Tyr Thr Ser Val Phe
 165 170 175

Arg Leu Ser Cys Leu Asp Thr His Pro Thr Gln Ser Ala Gln Gln Tyr
 180 185 190

Phe Leu Cys Ser Ser Leu Ser Pro Gly Ile Arg Met Ala Pro Leu Gly
 195 200 205

Glu Leu Leu Ser His Met Ile Lys Asp Leu His Tyr Phe Leu Ser Lys
210 215 220

Ser Arg Arg Lys Val Gly Glu Leu Ala Trp His Leu Ala Gly Thr Tyr
225 230 235 240

Asn Thr Ala Ser Thr Trp His Leu Leu Asp Arg Leu Pro Leu Pro Thr
245 250 255

Val Val Thr Thr Ser Met Gly Gly Gly Trp Cys Cys Thr Val Pro Met
260 265 270

Gly Trp Cys Ala Cys Ser Pro Met Pro Pro Ala Leu Pro Gln Cys Cys
275 280 285

Leu Leu Gln Ser His Leu Phe Arg Trp Ser Ile Leu Ile Glu Lys Val
290 295 300

Leu Gly Thr Ile Cys Leu Lys Cys Ser Pro Ala Asn Val
305 310 315

<210> 223

<211> 314

<212> PRT

<213> Homo sapiens

<400> 223

Leu Cys Tyr Cys Val Ile Ile Ile Ile Val Pro Phe Pro Ser Ile Pro
1 5 10 15

Gln Thr His Thr Tyr Val Glu Ile Leu Arg Gly Asp Asp Val Leu Phe
20 25 30

Thr Ser Ala Cys Leu Met Leu Ser Pro Val Leu Gly Thr Asn Ala Ile
35 40 45

Val Phe Leu Glu His Glu Ile His Gln Lys His Glu Trp Ile Trp Trp
50 55 60

Gly His Lys Arg Leu Thr Pro Gly Ser Arg Asn Leu Gly Gly Glu Thr
65 70 75 80

Ser Gly Leu Glu Gly Ala Glu Asp His Cys Val Arg Ser Thr Trp Phe
85 90 95

Trp Leu Ala Gly Leu Ala Arg Met Gln Arg Ser Phe Trp Val Leu Leu
100 105 110

Lys Phe Lys Thr Thr Ile Ile Ile Asn Ile His Leu Val Leu Thr Met
115 120 125

Cys Gln Ser Leu Ile Ala Phe Tyr Val Phe Ser His Ser Ser Lys Phe
130 135 140

Gly Leu Asp Ile Phe Pro Val Tyr Thr Ile His Met Arg Lys Arg Val
145 150 155 160

Glu Gln Gly Gly Ala Glu Thr Cys Pro Arg Ile His Ser Lys Asn Gly
165 170 175

Asn Trp Asp Trp Ser Pro Arg Asp Ser Cys Phe Leu Asp Phe Val Phe
180 185 190

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Leu Ile Ser Leu Pro Leu Arg Leu Phe Ile Asp Ile Phe Thr Phe Tyr
195 200 205

Phe Glu Ile Ile Val Asp Ser Gln Glu Val Thr Arg Glu Arg Ser Cys
210 215 220

Val Leu Phe Thr Gln Ile Ser Pro Met Leu Arg Phe Tyr Ile Thr Val
225 230 235 240

Ile Gln Tyr Glu Asn Gln Glu Thr Asp Ile Gly Ser Ile Tyr Val Tyr
245 250 255

Thr Ser Met Pro Phe His His Val Met Pro Pro Ser Pro Ser Cys Arg
260 265 270

Thr Val Pro Ser Pro Arg Arg Ser Ala Thr Cys Cys Ser Phe Lys Val
275 280 285

Ile Pro Ala Leu Phe Pro Val Pro Thr His Cys His Tyr Ala Pro Leu
290 295 300

Val Thr Thr Asn Leu Phe Ser His Leu Tyr
305 310

<210> 224

<211> 321

<212> PRT

<213> Homo sapiens

<400> 224

Lys Pro Ser Ser Gly Cys Gly Gly Trp Met Trp Asp Trp Met Gly Thr
1 5 10 15

Gln Lys Asn Ile Lys Thr Met Ala Thr Val Ile Ile Ile Val Ile Asn
20 25 30

Ser Gln Asp Asn Asn His Leu Ala Thr Val Ala Met Tyr Leu Lys Asp
35 40 45

Tyr Ser Leu Gly Val Phe Phe Leu Met Ser Met Glu Gln Asp Asp Trp
50 55 60

Ala Phe Glu Asp Ile Lys Glu Thr Lys Gly Pro Asp Cys Asn Gln Arg
65 70 75 80

Phe His Ser His Arg Pro Gly Phe Thr Trp Gln His Thr Phe Trp Thr
85 90 95

Phe Phe Phe Phe Ser Gly Lys Glu Thr Gly Ser Val Glu Asn Gly Arg
100 105 110

Met Arg Thr Asn Cys Arg Ala Leu Pro His Ser Trp Thr Leu Ser His
115 120 125

Ser Ser Arg Trp Gly Pro Pro Ala His Cys Trp Leu Cys Pro Pro Gln
130 135 140

Phe Leu Arg Ile His Thr Asp Phe Ala Lys Ile Leu Arg Tyr Val Gly
145 150 155 160

His Glu Leu Trp Val Cys Ala His Leu Val Pro Ser Leu Tyr Ser Thr
165 170 175

Leu His Ser Ser Gly Val Phe Leu Thr Ala Gly Ala Thr Phe His Leu

180

185

190

His His Tyr Tyr Ile Lys Trp Ala Ser Ile Phe Pro Ser Glu Phe Gln
 195 200 205
 Pro Leu Ser Gly Asn Leu Thr Phe Phe Leu Val Ser Phe Ala Leu Arg
 210 215 220
 Phe Cys Pro Phe Tyr Cys Ser Asn Glu Phe Thr Gln Pro Ser Ile Pro
 225 230 235 240
 His Glu Ser Gly Gln Asp Pro Val Thr Cys Asp Ser His Thr Asp Cys
 245 250 255
 Val Arg Val Thr Pro Pro Val Pro Gly Phe Pro Glu Pro Cys Leu Ser
 260 265 270
 Arg Leu Thr Gly Gln Ser Trp Asp Met Asn Trp Ala Pro Glu Leu Ala
 275 280 285
 Leu Phe Val Ser Arg Ser Ser Arg Cys Leu Cys Arg Leu Pro Asn Pro
 290 295 300
 Cys Ser Trp Ala Trp Val Ala Glu Ser Ala Gly Arg Leu Trp Cys Met
 305 310 315 320
 His

<210> 225
 <211> 314
 <212> PRT
 <213> Homo sapiens
 <400> 225

Leu Cys Tyr Cys Val Ile Ile Ile Ile Val Pro Phe Pro Ser Ile Pro
 1 5 10 15
 Gln Thr His Thr Tyr Val Glu Ile Leu Arg Gly Asp Asp Val Leu Phe
 20 25 30
 Thr Ser Ala Cys Leu Met Leu Ser Pro Val Leu Gly Thr Asn Ala Ile
 35 40 45
 Val Phe Leu Glu His Glu Ile His Gln Lys His Glu Trp Ile Trp Trp
 50 55 60
 Gly His Lys Arg Leu Thr Pro Gly Ser Arg Asn Leu Gly Gly Glu Thr
 65 70 75 80
 Ser Gly Leu Glu Gly Ala Glu Asp His Cys Val Arg Ser Thr Trp Phe
 85 90 95
 Trp Leu Ala Gly Leu Ala Arg Met Gln Arg Ser Phe Trp Val Leu Leu
 100 105 110
 Lys Phe Lys Thr Thr Ile Ile Ile Asn Ile His Leu Val Leu Thr Met
 115 120 125
 Cys Gln Ser Leu Ile Ala Phe Tyr Val Phe Ser His Ser Ser Lys Phe
 130 135 140
 Gly Leu Asp Ile Phe Pro Val Tyr Thr Ile His Met Arg Lys Arg Val
 145 150 155 160

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Glu Gln Gly Gly Ala Glu Thr Cys Pro Arg Ile His Ser Lys Asn Gly
 165 170 175
 Asn Trp Asp Trp Ser Pro Arg Asp Ser Cys Phe Leu Asp Phe Val Phe
 180 185 190
 Leu Ile Ser Leu Pro Leu Arg Leu Phe Ile Asp Ile Phe Thr Phe Tyr
 195 200 205
 Phe Glu Ile Ile Val Asp Ser Gln Glu Val Thr Arg Glu Arg Ser Cys
 210 215 220
 Val Leu Phe Thr Gln Ile Ser Pro Met Leu Arg Phe Tyr Ile Thr Val
 225 230 235 240
 Ile Gln Tyr Glu Asn Gln Glu Thr Asp Ile Gly Ser Ile Tyr Val Tyr
 245 250 255
 Thr Ser Met Pro Phe His His Val Met Pro Pro Ser Pro Ser Cys Arg
 260 265 270
 Thr Val Pro Ser Pro Arg Arg Ser Ala Thr Cys Cys Ser Phe Lys Val
 275 280 285
 Ile Pro Ala Leu Phe Pro Val Pro Thr His Cys His Tyr Ala Pro Leu
 290 295 300
 Val Thr Thr Asn Leu Phe Ser His Leu Tyr
 305 310
 <210> 226
 <211> 312
 <212> PRT
 <213> Homo sapiens
 <400> 226
 Gly Ala Arg Gly Gly Glu Ala Ser Thr Ser Leu Glu Ser Gln Val Glu
 1 5 10 15
 Asp Thr Ala Glu Gln Thr Ser Asn Leu Ile Thr Val Thr Leu Ile His
 20 25 30
 Pro Gln Leu Ala Lys Tyr Thr Leu Ile Val Asn Phe Leu Pro Leu Trp
 35 40 45
 Ser Leu Ser Asp Ile Ser Thr Asp Leu Leu Phe Ile Leu Leu Arg Leu
 50 55 60
 Arg Asn Ile Ile Arg Ile Leu Gln His Leu Gly Glu Ile Ile Glu Ser
 65 70 75 80
 Ala Met Val Ser Phe Ala Asp Ile Tyr Ser Trp Ser Lys Trp Asn Thr
 85 90 95
 Asn Gln Asn Trp Leu Pro Tyr Ile Leu Gln Arg Pro Thr Gly Gly Lys
 100 105 110
 Gly Leu Trp Lys Val Cys Phe Ala Thr Arg Gln Ile Leu Asp His Pro
 115 120 125
 Val Ser Gly Ser Ile His Ser Phe Pro Asp Ser Pro Asp Asp Ile Pro
 130 135 140

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Pro Ser Phe Thr Tyr Ile Asn Ser Thr Val Pro Ile Cys Tyr Ile Ala
145 150 155 160

Ser Phe Leu Leu Phe Ile Ile Cys Leu Pro His Gln Asn Ala Ser Ser
165 170 175

Ile Trp Ala Val Ala Thr Leu Phe Thr Val Tyr Leu Ser Val Ser Met
180 185 190

Lys Ser Asp Ile Met Pro Gly Ile Tyr Tyr Glu Leu Asn Asn Tyr Val
195 200 205

Asn Glu Ile Met Arg Lys Ser Cys Leu Ile Thr Cys Gln Pro Tyr Asn
210 215 220

Ala Ser Gln Phe Phe Pro Leu Gln Phe Leu His Leu Asn Trp Ile Thr
225 230 235 240

Gln Met Leu Thr Leu Trp His Cys Trp Asn Asn Tyr Leu Lys Ser Cys
245 250 255

Lys Phe Ile Ala Tyr Trp Lys Cys Gly Ser Glu Cys Asp Thr Pro Gln
260 265 270

Tyr Gly Val Leu Val Val Leu Thr Glu Gly Asn Lys Ser Phe Arg Asn
275 280 285

Lys Val Phe Leu Ala Phe Ser His Leu Ser Phe Ser Cys Ser Pro Phe
290 295 300

Phe Pro Lys Ala Asp Gln Arg Asn
305 310

<210> 227

<211> 321

<212> PRT

<213> Homo sapiens

<400> 227

Gly Cys Ser Pro Glu Asp Asp Leu Gly Cys Ser Gly Val Asn Tyr Pro
1 5 10 15

His Phe Leu Arg Ala Ser Met Trp His Ser Trp Pro Trp Ala Ser Ala
20 25 30

Cys Pro Ala Asn Ala Gln Pro Val Pro Ala Val Pro Pro Pro Leu Ala
35 40 45

Ala Gln Pro Gln Val Trp Pro Ser Gly Leu Tyr Pro Arg Pro Pro His
50 55 60

Leu Pro Thr Leu Phe Leu Cys Ser Glu Leu Ser Thr Ala Ala Pro Ala
65 70 75 80

Pro Trp Leu Pro Leu Ile Leu Cys Leu Val Ser Phe Phe Gly His Ser
85 90 95

Phe Ala Ala Thr Leu Tyr Trp Ile Thr Leu Leu Gly Val Leu Ile Ile
100 105 110

Ser His Pro Leu Leu Leu Pro Asn Gly Pro Ser Thr Ile Ser Phe His
115 120 125

Arg Leu Asn Gly Lys Gly Gly Val His Ile His Arg Ile Lys Gln Val

130

135

140

Met Pro Leu His Ser Gly Val Cys Asp Asp Asn Phe Tyr Ala Phe Tyr
 145 150 155 160

Thr Asn Ile Phe Val Ser Leu Cys Phe Leu Pro Cys Leu Arg Ala Leu
 165 170 175

Gln Gly Leu Ala Leu Gly His Pro Val Leu His Thr His Thr Arg Thr
 180 185 190

His Thr Arg Thr Cys Thr His Val His Thr His Ala His Thr His Thr
 195 200 205

His Thr His Lys His Thr His Ser Leu Ala Leu Ala Asn Ala Ser Leu
 210 215 220

Ala Leu Thr Thr Asn Val Ser Ala Ser Asp Leu His Asn Leu Ile Trp
 225 230 235 240

Leu Phe Leu Phe Leu Gly Val Ile Cys Leu Pro Glu Gly Arg Ala Asn
 245 250 255

Ser Pro Ala Ile Pro Ala Ala Tyr Ser Leu Pro Val Pro Ser Phe Pro
 260 265 270

Arg Arg Gln Gln Thr Glu Arg Gly Lys Arg Tyr Lys Glu Ala Trp Gly
 275 280 285

Trp Gly Lys Glu Ser Ser Tyr Leu Thr Ser Ala Pro Leu Thr Leu Leu
 290 295 300

Gly Glu Val Pro Thr His Ser Ser Gly Met Thr Thr Arg Met Val Ser
 305 310 315 320

Leu

<210> 228

<211> 123

<212> PRT

<213> Homo sapiens

<400> 228

Asp Cys Ala Ala Ala Leu Pro Gly Gln Ser Lys Thr Pro Phe Gln Lys
 1 5 10 15

Lys Lys Lys Lys Lys Lys Glu Arg Lys Glu Phe Met Asp Val Ile Val
 20 25 30

Lys Gly Leu Val Pro Ser Pro Ile Ser Cys Phe Pro Ser Cys His Val
 35 40 45

Thr Cys Trp Phe Pro Phe Thr Phe Cys His Asp Trp Lys Leu Pro Gly
 50 55 60

Ala Ser Pro Glu Ala Lys Gln Met Pro Gly Pro Cys Phe Leu Tyr Ser
 65 70 75 80

Leu Leu Asn Pro Glu Pro Asn Lys Pro Leu Phe Ile Thr Asn Tyr Leu
 85 90 95

Gly Ser Asp Ser Pro Leu Gln Cys Lys Trp Thr Asn Thr Pro His Asp
 100 105 110

Leu His Pro Gln Thr Thr Gly Gly Thr Gln His
115 120

<210> 229
<211> 210
<212> PRT
<213> Homo sapiens

<400> 229

Ser Ala Cys Gly Gly Phe Asn Gly Leu His Phe Tyr Ser Asn Ile Ser
1 5 10 15

His Gln Leu Tyr Ile Tyr Tyr Leu Lys Val Phe Leu Phe Ile Val Phe
20 25 30

Gln Phe Ile Phe Gln Ile Arg Ser Lys Gln Asn Tyr Ser Trp Arg Leu
35 40 45

Cys Cys Leu His Pro Gln Tyr Gln Met Phe Met Ala Ser Thr Glu Pro
50 55 60

Gly Val Ser Met Glu Ser Leu Arg Asp Cys Leu Ser Phe Ser Glu Glu
65 70 75 80

Ser Val Met Phe Ser Ile Pro Glu Glu Ala Glu Ile Thr Leu His Tyr
85 90 95

Phe Phe Glu Leu Cys Ala Gly Arg His Gly Ser Glu Ile Cys Leu Ser
100 105 110

Asp Ser Asn Ser Ser Ser Ile Cys Val Leu Val Phe Val Val Ala Phe
115 120 125

Cys Ile Gln Leu Pro Asp Asn Phe Phe Leu Met Phe Cys Cys Asn Leu
130 135 140

Val Lys Leu Leu Phe Tyr Lys Leu Met Phe Trp Tyr Phe Gly His Gln
145 150 155 160

Ile Leu Ala Arg Gly Lys Ile Arg Thr Arg Ser Thr Ser Cys Lys Thr
165 170 175

Lys Leu Ile Phe Leu Val Asp Phe Trp Asn Gly Leu Phe Cys Phe Pro
180 185 190

Ile Cys Val Tyr Phe Leu Lys Ser Cys Arg Cys Ile Tyr Glu Tyr Leu
195 200 205

Phe His
210

<210> 230
<211> 204
<212> PRT
<213> Homo sapiens

<400> 230

Val Ile Asn Ser Ser Cys Pro Ser Ile Ile Gly Leu Gly Thr Pro Gly
1 5 10 15

Phe Ser Cys Ser Ser Ser Val Ile Gly Arg Lys Ile Gly His Trp Leu
20 25 30

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Lys Gln Ile Leu Ser Phe Leu Gly Val Val Phe Thr Leu Lys Ala Leu
 35 40 45
 Arg Pro Leu Gly Gly Ser Ala Ile Leu Gln His Gly Arg Cys Pro His
 50 55 60
 Thr Trp Met Ala Ala Phe Tyr Tyr Tyr Ser Leu Asp Thr Gly Phe Phe
 65 70 75 80
 Ala His Val Tyr Thr Leu Gly Ser Ile Cys Tyr Pro Phe Phe Thr Leu
 85 90 95
 Lys Gln Val Ile Gly Lys Phe Ile Ser Ile Trp Lys Thr Asn Asp Gln
 100 105 110
 Lys Asn Pro Ser Asn Pro Lys Phe Thr Glu Ala Arg Leu Leu Lys Arg
 115 120 125
 Lys Asp Ile Phe Leu Cys Arg Lys Val Met Phe His Arg Gly Phe Cys
 130 135 140
 Asn Ala Leu Thr Leu Asp Arg Ser Pro Pro Ser Ile Leu Gly Ile Thr
 145 150 155 160
 Ser Phe His Phe Ser Cys Lys His Ser Ser Pro Cys Thr Leu Gln Asp
 165 170 175
 Phe Ser Leu Phe Glu Ile Gly Leu His Ser Val Gly Arg Gly Asp Trp
 180 185 190
 Phe Gln Lys Glu Gly Ala Ala Gly Arg Asp Phe Ala
 195 200
 <210> 231
 <211> 186
 <212> PRT
 <213> Homo sapiens
 <400> 231
 Gln Gly Arg Cys Thr Pro Pro Val Ile Leu Gly Val Ile Ser Ser Pro
 1 5 10 15
 Pro Leu Asp Ile Arg Asn Asn Ile Thr Ala Gly Val Gly Val Val Tyr
 20 25 30
 Ser Leu Cys Asn Ile Gly Ser Asn Ile Ile Leu Ser Pro His Trp Ile
 35 40 45
 Leu Gly Thr Ile Ser Gln Glu Val Trp Thr Pro Pro Ala Ile Leu Gly
 50 55 60
 Val Thr Ser Phe Ser Phe Pro Ser Gly Tyr Glu Gln Tyr Cys Ile Gly
 65 70 75 80
 Val Tyr Thr Pro Ser Asp Ile Arg Ser Asn Ile Ile Leu Ser His Ser
 85 90 95
 Gly Tyr Glu Gln Tyr Leu Arg Arg Ser Val Glu Pro Leu Arg Tyr Glu
 100 105 110
 Tyr His Pro Leu Pro Pro Trp Ile Leu Gly Thr Ile Thr Gln Gly Glu
 115 120 125

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Tyr Thr Ala Pro Val Ile Leu Arg Val Ile Ser Ser Pro His Leu Asn
130 135 140

Ile Arg Asn Asn Ile Arg Gly Val Gly Tyr Thr Ile Cys Asp Ser Gly
145 150 155 160

Arg Asn Ile Ile Leu Ser Pro Pro Gly Tyr Glu Gln Tyr His Lys Trp
165 170 175

Ser Ile His Pro Leu Arg Tyr Trp Glu Tyr
180 185

<210> 232
<211> 157
<212> PRT
<213> Homo sapiens

<400> 232

Asp Asn Leu Cys Ser Pro Cys Ser Ser Thr Pro His Ile Pro Ile Val
1 5 10 15

Cys Pro Phe His Ser Ala Pro Phe Ser Val Gln Thr Glu Leu Phe Thr
20 25 30

Asn His Tyr Pro Leu Leu Glu Met Glu Gly Ala Pro Phe Pro Thr Pro
35 40 45

Pro Leu Pro Pro Gln Leu Ser Ser Pro Arg Arg Leu Ser Ile Asn Arg
50 55 60

Leu Thr Ile Ser Leu Asn Phe His Ile Phe Val Trp Leu Ser Tyr Leu
65 70 75 80

Phe Thr Phe Ile Asn Leu Leu Cys Phe Ser Leu Val Asn Gln Ser Phe
85 90 95

Phe Ile Gly Val Ser Ala Val Ser Leu Tyr Asp Gly Glu Glu Lys Asn
100 105 110

His Pro Leu Ser Thr Pro Thr Ser Asp Arg Ser Gln Asp Ile Pro Leu
115 120 125

Lys Phe Gly Lys Val Asn Thr Ser Thr Pro Cys Ile Leu Pro Asp Asn
130 135 140

Thr Lys Asn Phe Ile Gln Tyr Ile Tyr Tyr Met Ile Lys
145 150 155

<210> 233
<211> 178
<212> PRT
<213> Homo sapiens

<400> 233

Arg Ser Arg Lys Val Asn Trp Pro Lys Val Gly Ile Tyr Ile Pro Val
1 5 10 15

Leu Leu Leu Glu Cys Cys Leu Phe Leu Asn His Pro Trp Ser Arg Pro
20 25 30

Thr Pro Ser Cys Thr Tyr Thr Asn Pro Ile Leu Ser Gln Thr Gly Leu
35 40 45

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Trp Leu Asp Ile Gly Glu Lys Gln Leu Asp Gly Leu Thr Pro Lys Lys
50 55 60

Asn Pro Ala Arg Asp Gly Gln Asn Phe Arg Gly Gly Leu Arg Tyr Arg
65 70 75 80

Pro Cys Leu Leu Leu Ser Ser Pro Ser Cys Arg Glu Pro Arg Phe Ile
85 90 95

His Asn Lys Ile Pro His Ile His His Pro Ser Ile Tyr Ser Cys Asn
100 105 110

Leu Ile Phe Pro Gly Trp Trp Thr Arg Ala Arg Glu Pro Gln Val Glu
115 120 125

Ile Gln Lys Ala Val Thr Leu Ala Leu Cys Pro Cys Trp Arg Arg Ala
130 135 140

Ala Ala Ser His Arg Gly Arg Gly Pro Thr Glu Leu Leu Thr Leu Lys
145 150 155 160

Pro Ser Ala Asp Gly Arg Ala Lys Thr Ala Leu Glu His Ala Leu Trp
165 170 175

Gly Phe

<210> 234
<211> 188
<212> PRT
<213> Homo sapiens

<400> 234

Ile Glu Thr Lys Leu Asn Thr Phe Ala Lys Leu Leu Arg Ser Lys Phe
1 5 10 15

Leu Val Pro Arg Leu Glu Leu Pro Asn Ala Asp Lys Ser Ser Pro Val
20 25 30

Gly Ser Pro Thr Leu Phe Lys Gln Phe Leu Asp Phe Ala Pro Val Glu
35 40 45

Ala Asp Met Leu Asn His Lys Thr Pro Leu Leu Leu Ala Leu Ala Tyr
50 55 60

Cys Phe Gly Arg Ser His Phe Ser Lys Ile Arg Ala Ser Leu Ile Asn
65 70 75 80

Thr Gly Ile Arg Phe Leu Ser Gly Val Gly Ile Pro Glu Asp Arg Ile
85 90 95

Ile Tyr Phe Ala Leu Ser Arg Cys Val Met Arg Thr Glu Ala Met Leu
100 105 110

Ile Arg Asp Pro Trp Glu Leu Val Ile Tyr Tyr Leu Leu Phe Leu Pro
115 120 125

Lys Ile Asp Leu Met Glu Arg Gly Cys Ile Ile Tyr Pro Leu Ser Lys
130 135 140

Glu Ala Phe Pro Asn Thr Thr Glu Ala Val Ile Leu Lys Thr Ala Leu
145 150 155 160

Trp Leu Cys Ser Gln Leu Tyr Phe Leu Pro Phe His Asn Phe Leu Pro

165

170

175

Ser Ala Met Glu Leu Met Gly His Thr His Ile His
180 185

<210> 235
<211> 165
<212> PRT
<213> Homo sapiens

<400> 235

Lys Lys Lys Thr Pro Met Ile Trp Ile Leu Leu Ser Phe Leu Phe Ser
1 5 10 15

Gln Met Val Ile Leu Lys Leu Ile Glu Val Val Tyr Arg Val His Ser
20 25 30

His Thr Val Arg Lys Arg Gln Ser Gln Gly Leu Asn Ser Ser Ser Leu
35 40 45

Thr Ile Glu Pro Ile Phe Leu Ile Thr Ile Gln Tyr Phe Thr Ile Cys
50 55 60

Ser Ile Lys Arg Asn His Phe Ser Glu Trp Arg Asn Ile His Glu Asn
65 70 75 80

Lys Ser Ile Ile Gln Asp Thr Cys Lys Ala Ser Arg His Ser Arg Phe
85 90 95

Arg Leu Leu Ala Pro Trp Pro Arg Leu Ile Thr Phe Gln Glu Asn Lys
100 105 110

Thr Thr Tyr Gln Asp His Thr Ser Arg Asn Asp Leu Arg Ile Met Gly
115 120 125

Thr Ala Ile Trp Val Ser Asn Gly Leu Glu Ser Asp Lys Trp Phe Leu
130 135 140

Asn Arg Phe Pro Glu Trp Gly Asn Leu Val Leu His Gln Ala Thr Tyr
145 150 155 160

Val Ile Phe Ile Leu
165

<210> 236
<211> 218
<212> PRT
<213> Homo sapiens

<400> 236

Ser Phe Leu Ser Phe Asn Arg Val Glu Lys Ile Ile Ile Ser Trp Glu
1 5 10 15

Pro Ser Phe Phe Tyr Tyr His Glu Cys Lys Cys Thr Ser Met Thr His
20 25 30

Leu Pro Leu Arg Ile Lys Leu Gln Tyr Lys Lys Tyr His Tyr Thr Tyr
35 40 45

Leu Ser Leu Ser Phe Asn Cys Leu Leu Glu Pro Ile Leu Phe Cys Leu
50 55 60

Pro Arg Thr Ser Thr Met Asp Tyr Pro Phe Thr Ile Ala Leu Ser Phe

65				70				75				80			
Ser	Ser	Phe	Cys	Ile	Cys	Phe	Pro	Leu	Ile	Phe	Lys	His	Asp	Val	Ile
				85					90					95	
Phe	Ile	Arg	Asp	Ile	Asn	Ile	Leu	Ile	Thr	Trp	Phe	Thr	Arg	Thr	Thr
			100					105					110		
Pro	Ser	Ser	Val	Val	Trp	Arg	Thr	Lys	Leu	Leu	Glu	Arg	Asp	Val	Gln
			115				120					125			
Thr	Gln	Tyr	Leu	Tyr	Phe	Cys	Met	Pro	His	Lys	Ser	Ser	Leu	Ile	Phe
	130					135					140				
Ile	Leu	Ile	Ser	Leu	Leu	Lys	Asp	Val	Thr	Lys	Asp	Thr	Asn	Glu	Phe
145					150					155					160
Gln	Lys	Ser	Pro	Asn	Pro	Met	Glu	Ile	His	Phe	Pro	Leu	Ser	Leu	Ser
				165					170					175	
Ser	Asn	Ile	Leu	Pro	Leu	Val	Phe	Gln	Asp	Ser	Phe	Leu	Leu	Ser	Phe
			180					185					190		
Leu	Leu	Thr	Leu	Phe	Ser	Ser	Leu	Lys	Ile	His	Pro	Pro	Leu	Pro	Ser
	195						200				205				
His	Lys	Met	Leu	Arg	Val	Glu	Gly	Gly	Ser						
	210					215									
<210>		237													
<211>		139													
<212>		PRT													
<213>		Homo sapiens													
<400>		237													
Thr	Gln	Cys	Gln	Phe	Thr	Lys	Tyr	Thr	Ile	Ile	Tyr	Ser	Gln	Asn	Thr
1				5					10					15	
Phe	Ile	Lys	Arg	Asn	Phe	Phe	Lys	Arg	Arg	Ser	Cys	Gln	Cys	Gln	Tyr
			20					25					30		
Arg	Asn	Tyr	Lys	Asn	Pro	Phe	Leu	Phe	Pro	Leu	Glu	Ile	Pro	Ser	Leu
		35					40					45			
Asp	Cys	Cys	Ser	Lys	Asn	Leu	Ile	Ser	Lys	Val	Val	Ser	Leu	Ser	Leu
	50					55					60				
Asp	Asn	Asp	Ile	Arg	Lys	Cys	Ser	Arg	Gln	Ile	Phe	Ser	Lys	Ile	Gln
65					70					75					80
Ser	Ile	Trp	Tyr	Leu	Pro	Lys	Ser	Lys	Leu	Gln	Arg	Glu	Pro	Glu	Cys
				85					90					95	
Ser	Pro	Thr	Ala	Phe	Ser	Ser	Ser	Thr	Gln	Trp	Ile	Ser	Tyr	Met	Leu
			100					105					110		
Asn	Cys	His	Val	Cys	Ala	Ser	Leu	Lys	Cys	Ala	Phe	Leu	Phe	Thr	Glu
		115					120					125			
Met	Arg	Asp	Val	Leu	Phe	Met	Ile	Phe	Ser	Leu					
	130					135									
<210>		238													
<211>		213													

<212> PRT

<213> Homo sapiens

<400> 238

Phe Gln Tyr Phe Val Thr Cys Arg Ser Lys Trp Trp His Ala Ser His
 1 5 10 15
 Leu Val Asn Ser Arg Ser Cys Cys Val Ser Asn Gly Asp Thr Leu Trp
 20 25 30
 Leu Leu Gln Met Val Thr Leu Pro Asn Cys Phe Pro Lys Arg His Val
 35 40 45
 Ala Phe Phe Ser Gln Ser Leu Ile Leu Thr Leu Met Val Ile Leu Leu
 50 55 60
 Tyr Phe Tyr Met His Leu Val Thr Cys Leu Ile Val Ile Phe Leu Glu
 65 70 75 80
 Ile Gln Phe Leu Leu His Arg Val Ser Phe Glu Ile Lys Glu Arg Glu
 85 90 95
 Val Ala Asn Leu Gly Cys Asn Asn Phe His Leu Lys Val Asp Pro Cys
 100 105 110
 Phe Tyr Tyr Pro Ile Ile Asn Val Phe Cys Phe Pro Leu Ser Ala Ser
 115 120 125
 Tyr Cys Ser Phe Asp Ser Tyr Cys Gln Thr Glu Leu Ser Cys Phe Leu
 130 135 140
 Ala Arg Lys Glu Thr Thr Met Asn Glu Pro Leu Asp Tyr Leu Ala Asn
 145 150 155 160
 Ala Ser Asp Phe Pro Asp Tyr Ala Ala Ala Phe Gly Asn Cys Thr Asp
 165 170 175
 Glu Asn Ile Pro Leu Lys Met His Tyr Leu Pro Val Ile Tyr Gly Ile
 180 185 190
 Ile Phe Leu Val Gly Phe Pro Gly Asn Ala Val Val Ile Ser Thr Tyr
 195 200 205
 Ile Phe Lys Met Arg
 210

<210> 239

<211> 168

<212> PRT

<213> Homo sapiens

<400> 239

Trp Phe Thr Tyr Pro Leu Asn Lys Gln Leu Leu Arg Ile Pro Ala Pro
 1 5 10 15
 Ala Gln Arg Gln Tyr Trp Gly Leu Cys Leu Arg Met Trp Ala Leu Glu
 20 25 30
 Leu Cys Gly Trp Gly Ser Asn Ser Gly Arg Ala Ala Val Arg Pro Trp
 35 40 45
 Thr Ser Gly Ser Ser Lys Thr Asp Arg Gln Phe Ile Phe Ile Leu Val
 50 55 60

Pro Gln Ile Val Val Leu Leu Ser Asn Tyr Leu Gly Phe Ile Pro Arg
65 70 75 80

His Trp Glu Ser Lys Leu Phe Ser Phe Ser Cys Leu Gln Lys Ser Ser
85 90 95

Leu Thr Ile His Val Ala Tyr His Trp Ile Gly Leu His Ile Lys His
100 105 110

Phe Val Thr Thr Phe Ala Cys Gly Tyr Ile Leu Leu Ser Phe Ser Tyr
115 120 125

Phe Leu Leu Ala Leu Leu Glu Tyr Ser His Lys Ser Leu Ser Ser His
130 135 140

Phe Trp Pro Pro Phe Asp Ser Phe Ser Leu Leu Cys Cys Cys Glu Ser
145 150 155 160

Phe His Val Gln Asp Ser Arg Trp
165

<210> 240
<211> 185
<212> PRT
<213> Homo sapiens
<400> 240

Ser Thr Met Cys Ile Phe Phe Trp Ala Lys Met Arg Gln Arg Cys His
1 5 10 15

Val Asn Phe Ser Phe Leu His Thr Thr Ile Val Ser His Lys Thr Lys
20 25 30

Asn Lys Arg Lys His Met Phe Thr Val Gly Arg Ile Ile Thr Arg Ser
35 40 45

Ser Val Ala Trp Pro Lys Glu Pro Leu Pro Thr Tyr Trp Gly Cys His
50 55 60

Met Lys Gly Phe Ser Lys Arg Leu Ala Ile Phe Ile Lys Gly Val Arg
65 70 75 80

His Gly Ser Gly Gln Gln Thr Ser Leu Trp Lys Gly Ser Lys Leu Leu
85 90 95

Gln Gln Asn Glu Arg Ile Met Val His Leu Pro Thr Leu Cys Asn Leu
100 105 110

Trp Met Lys Pro Gln Pro Arg Lys Val Lys Leu Leu Cys Val Cys Val
115 120 125

Trp Gly Cys Glu Gly Arg His Arg Lys Gly Lys Ala Asp Arg Pro Trp
130 135 140

Lys Thr Asp Ile Ser Pro Gly Glu Trp Asn Gly Gln Ser His Asn Thr
145 150 155 160

His Val Leu Asn Ile Thr Cys Phe Arg Lys Tyr Asn Ile Lys Thr Leu
165 170 175

Phe Lys Ser Tyr Ser Leu Met Ile Ser
180 185

<210> 241
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 241

Val Leu Asp Ile Asp Val Arg Met Gly Gly Leu Ser Tyr Pro Ser Pro
 1 5 10 15
 His Val Phe Leu Leu Arg Asp Ser Asn Cys Asn Thr Ser Leu Val Phe
 20 25 30
 Phe Ala Ser Ser Leu Ile Pro Tyr Gln Gly Lys Ser Ser Glu Leu Ser
 35 40 45
 Asn Glu Ile Trp Lys Glu Lys Val Ser Lys Tyr Thr Gln His Tyr Ser
 50 55 60
 Thr Ser Phe Ser Leu Gly Leu Ala Ser Leu Gln Arg Glu Tyr Ile Leu
 65 70 75 80
 Leu Cys Ala Gly Ser Phe Pro Lys Leu Ile Ser Gly Phe Val Asn His
 85 90 95
 Gly Thr Ile Asp Ile Leu Asp Gln Ile Ile Leu Cys Cys Met Ala Cys
 100 105 110
 Ser Val Phe Cys Gln Ile Phe Gly Ile Ile Pro Gly Leu Asn Leu Pro
 115 120 125
 Asp Ala Asn Ser Thr Phe Ser Leu Lys Thr Ile Glu Ile Phe Gln Asp
 130 135 140
 Val Ala Lys Cys Pro Ser Gly Leu Lys Val Ala Pro Asn Ser Asn His
 145 150 155 160
 Cys Phe Glu Ala Cys His His Arg Glu Gly Cys Leu Arg Leu Asn Val
 165 170 175
 Cys Leu Arg Leu Ile Tyr Thr Pro Lys Ser Asn Ser Thr Val Thr Leu
 180 185 190
 Ile Ser Arg Lys
 195

<210> 242
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 242

Phe Ala Leu Phe Pro Met Phe Ile Ile Ser Leu Asn Gly Thr Pro Ile
 1 5 10 15
 Cys Met Val Ala Trp Glu Ile Tyr Gly Ile Ile Leu Glu Pro Ser Phe
 20 25 30
 Phe Ile Ile Pro Met Ser Arg Ser Glu Ile Leu Ser Glu Tyr Ala Ser
 35 40 45
 Leu Ile Tyr Leu Lys Leu Ala His Phe Lys Phe Leu Ser Ile Leu Thr
 50 55 60

Leu Leu Tyr Leu Asn Asp Tyr His Ser Pro Asn Cys Phe Leu Met Gly
65 70 75 80

Leu Ile Gly Lys Thr Asn Leu Phe Leu Ile Leu Pro Leu Glu Leu Ser
85 90 95

Phe Gln Thr Arg Met Trp Pro Ser Phe Phe Leu Thr Asn Asp Leu Ile
100 105 110

Val Pro Lys Thr Lys Ser Ile Leu Ser Leu Asn Asn Ile Gln Gly Pro
115 120 125

His Ser Arg Ser Ser Leu Ile Pro Thr Ser Val Phe Leu Ser Ser Ser
130 135 140

Pro Ser Gln Ser Thr Leu Ser His Thr Arg Tyr Ser Thr Trp Ser His
145 150 155 160

Ile Lys Leu Leu Ser Ile Leu Gly Phe Leu Leu Ala Phe Asn Pro Leu
165 170 175

Leu Gly Trp Cys Ile Pro Gly Glu Trp Ser Asn Pro Cys Thr Cys Tyr
180 185 190

His Ala Pro Thr Phe Leu
195

<210> 243
<211> 180
<212> PRT
<213> Homo sapiens

<400> 243

Leu Cys Asp Gly Val Met Arg Trp Gly Arg Arg Val Trp His His Ala
1 5 10 15

Thr Gly Phe Pro Pro Lys Leu Ser Thr Pro Arg Ser Thr Ser Ala Ser
20 25 30

Gly Met Ser Ala Gly Ser Gln Arg Leu Trp Arg Arg Gly Ser Ser His
35 40 45

Ala Val Gln Thr Phe Asn Pro Leu Gln Ser Ser Leu Ala Arg Glu Gln
50 55 60

Gln Ser Leu Leu Glu Arg Asn Tyr His Ser Lys Gln Glu Phe Arg Pro
65 70 75 80

His Leu Ser Glu Asp His Val Glu Val His Leu Ala Gly Lys Val Ala
85 90 95

Ser Gly Cys Gly Leu Phe Asn Tyr Thr Leu Leu Phe Thr Leu Phe Thr
100 105 110

Ile Val Cys Lys Val Gln His Leu Gln Ala Arg Asn Thr Gly Leu Pro
115 120 125

His Ser Gly Trp Leu Gly Leu Met Lys Ala Ala Lys Gln Cys Ala Gln
130 135 140

Ser Lys Gln Arg Leu Pro Leu Ala Gly Ala His Ser Pro Arg Glu Gly
145 150 155 160

Ile Ser Phe Ser Leu Asp Leu Gly Ala Lys Ala Thr His Gly Ser Asp

165

170

175

Gln Thr Thr Cys
180

<210> 244
<211> 129
<212> PRT
<213> Homo sapiens

<400> 244

Val Glu Gln Leu Glu Thr His Gly Ser Val Leu Glu Trp Leu Val Trp
1 5 10 15

Asp His Phe Leu Gly Asp His Ser Ala Leu Thr Asp Gln Thr Gln Val
20 25 30

Asn Gly Thr Cys Pro Leu Pro Phe Pro Pro Gly Phe Gly Thr Val Ala
35 40 45

Thr Arg Val Val Phe Pro Ser Arg Gln Leu Leu Arg Val Ile Pro Glu
50 55 60

His Ser Leu Gly Ala Cys Ser Val Leu Thr Val Ile Ser Phe Ile Leu
65 70 75 80

Thr Ala Ile Pro Phe Cys Ile Phe Ser Gly His Pro Gln Asp His Pro
85 90 95

Gly Gln Pro Cys Leu Thr Pro Gly Leu Val Trp Leu His Asp Asn Lys
100 105 110

Asp Ala Gly Pro Glu Thr Ile Pro Leu His Gly Ala Cys Ile Phe Pro
115 120 125

Leu

<210> 245
<211> 181
<212> PRT
<213> Homo sapiens

<400> 245

Glu Ser Lys Met Leu Ile Gly Gly Ala Pro Pro Gln Cys Val Glu Asp
1 5 10 15

Leu Ala Ala Leu Asp Ala Tyr Ser Gln Ala Leu Gly Thr Arg Glu Ala
20 25 30

Pro Gly Leu Pro Phe Trp Ala Val Asp Leu Trp Gly Arg Ser Trp Pro
35 40 45

Leu Gly Trp Cys His Cys Ser Ser Tyr Pro Lys Cys Pro Phe Tyr Ala
50 55 60

Cys Ser Gly Leu Ala Ser Asn Thr Leu Lys Val Ser Ser Lys Gly Gln
65 70 75 80

Gly Arg Val Pro Cys Gly Lys Arg Trp Leu Phe Glu Ala Lys Ala Gln
85 90 95

Arg Arg His Ser Gln Arg Met Gly Arg Ala Ala Gly Gln Val Ser Ala

100

105

110

Ser Thr Trp Lys Thr Pro Ala Trp Leu Ala Ala Gly Glu Ile Val Leu
 115 120 125

Pro Arg Cys Gln Leu Leu Ser Arg Pro Leu Pro Arg Glu Pro Ser His
 130 135 140

Leu Ser Phe Ser Tyr Pro Ser Leu Arg Lys Ala Gln Ala Gln Gly Ala
 145 150 155 160

Met Val Pro Cys Ser Gln Thr Val Ile Ser Glu Trp Pro Leu Val Trp
 165 170 175

Gly Pro Arg Val Gln
 180

<210> 246

<211> 137

<212> PRT

<213> Homo sapiens

<400> 246

Gln Asn Thr Phe Tyr His Ile Asn Ser Cys Thr Met Ile Trp Leu Glu
 1 5 10 15

Glu Lys Asn Ser Trp Lys Val Lys Phe Val Leu Lys His Leu Phe Lys
 20 25 30

Ser Leu His Thr Phe Ile Cys Pro Asp Lys Thr Cys Leu Asn Phe Phe
 35 40 45

Leu Lys Gln Leu Tyr Cys Pro Ser Ile Cys Leu Thr Lys Phe Phe Lys
 50 55 60

Gly His Phe Gln Pro Phe Gln Arg His Lys Val Gly Val Pro Lys Pro
 65 70 75 80

Pro Phe Leu Ala Leu Pro Val Glu Asn Thr Met Leu His Ser Tyr Met
 85 90 95

Cys Pro Leu Thr Gln Thr Thr Leu Ile Leu Arg Arg Ser Leu Asp Leu
 100 105 110

Lys Leu Leu Leu Leu Ala Val Pro Ala Asn Ser Arg Val Lys Glu Asp
 115 120 125

Val Thr Arg His Thr Tyr Leu Pro Phe
 130 135

<210> 247

<211> 149

<212> PRT

<213> Homo sapiens

<400> 247

Ser Pro Met Leu Gln Phe Tyr Arg Leu Gly Lys Leu Arg Ala Gly Val
 1 5 10 15

Thr Cys Tyr Ser Ser Tyr Pro Gln Thr Tyr Lys Thr Lys Ser Phe Thr
 20 25 30

Glu Val Lys Tyr Asn Leu Phe Gly Leu Leu Phe His Phe Thr Ile Leu

35

40

45

Ser Leu Leu Val Phe Ile Thr Ile His Ser Lys Glu Phe Ile His Val
50 55 60

Asp Thr Ser Glu Val Phe Leu Ile Ser Pro Val Arg Pro Val Val Lys
65 70 75 80

Leu Leu Trp His Tyr Ser Thr Phe Ser Leu Ser Val Phe Phe Pro Ser
85 90 95

Pro His Arg Ser Glu Leu Ile Ser Pro His Pro Gly Pro Ser Glu Ser
100 105 110

Phe Val Lys Ser Leu Leu Ser Asn Leu Ser Val Glu Arg Val Pro Leu
115 120 125

Cys Leu Ser Glu Ile His Thr Val Met Cys His Leu Thr Met Phe Gln
130 135 140

Ser Val Arg Asp His
145

<210> 248
<211> 145
<212> PRT
<213> Homo sapiens

<400> 248

Pro Ile Pro Pro Ser Glu Gly Leu Glu Lys Ala Phe Thr Phe Met Ser
1 5 10 15

Pro Gly Ile Arg Ser Pro Gln Thr Arg Asn Phe Phe Leu Ile Met Glu
20 25 30

Val Trp Gln Trp Ala Thr Lys Pro Lys Val Ser Val Leu Leu Ser Asp
35 40 45

Ile Ala Ser Leu Arg Asn Arg Gln Pro Gly Arg Asp Gly Met Ser Leu
50 55 60

Ile Lys Cys Ser Ala Glu Val Ser Ser Arg Gly Leu Trp Cys Cys Pro
65 70 75 80

Ser Gly Cys Asn Ile Cys Thr Lys Pro Val Thr Glu Tyr Tyr Thr Glu
85 90 95

Ser Val Val Pro Lys Ile His Gly Phe Leu Tyr Gln Gly Leu Asp Ile
100 105 110

Glu Ser Ala Leu Val Thr Ile Lys Trp Leu Arg Asn Phe Tyr Phe Ile
115 120 125

Cys Pro Gln Leu Arg Trp Ile Arg Ser Val Cys Ile Leu Ala Ser Val
130 135 140

Cys
145

<210> 249
<211> 146
<212> PRT
<213> Homo sapiens

<400> 249

Leu Thr Ser Val Ser Ser Val Lys Pro Lys Leu Ser Lys Cys Glu Ile
 1 5 10 15
 Met Lys Cys Val Lys Leu Leu Ile Gln Cys Leu Arg Gln Gln Asn Ser
 20 25 30
 Arg Leu Ile Ile Gln Ser Ile Gln Thr Thr Phe Tyr Gly Asp Asn Leu
 35 40 45
 Trp Ser Glu Arg Leu His Lys Cys Ser Phe His Ser Tyr Ser Ser Ser
 50 55 60
 Asn Thr Lys Leu Leu Ser Ile Pro Glu Leu Lys Met Thr Leu Leu Thr
 65 70 75 80
 Asp Leu Tyr Leu Phe Ile Cys His Phe Ser Arg Arg Thr Ala Ile Leu
 85 90 95
 Pro Gln Ser Pro Tyr Ala Phe Val Glu Ser Trp Leu Lys Pro Gln Ala
 100 105 110
 Leu Cys Lys Ala Phe Leu Gly Ile Asp Ile Thr Thr Ile Pro Gln Asn
 115 120 125
 Leu Leu Val Leu His Ala Ile Ser Gly Pro Trp Thr His Phe Tyr Cys
 130 135 140
 Asn Lys
 145

<210> 250

<211> 84

<212> PRT

<213> Homo sapiens

<400> 250

Phe Thr Gln Glu Ser Ser Arg Pro Ser Thr Phe Gly Ala Asn Leu Glu
 1 5 10 15
 Leu Gly Cys Arg Pro Ala Gly Thr Phe Ile Lys Cys Tyr Tyr Phe Ile
 20 25 30
 Phe Ala Ser Glu Glu Leu Pro Asp Phe Val Lys Thr Leu Cys Asn Pro
 35 40 45
 Ser Pro Phe Phe Trp His Ser Arg Gln Leu Asn Lys His Leu Leu Thr
 50 55 60
 Pro Leu Leu Cys Val Ile Arg Cys Glu Arg His Trp Arg Tyr Glu Glu
 65 70 75 80
 Pro Met Val Ser

<210> 251

<211> 62

<212> PRT

<213> Homo sapiens

<400> 251

Ala Pro Trp Gly Trp Ala Ser Val Ser Val Cys Ala Arg Leu Glu Met

1 5 10 15
 Ala Ser Arg Tyr Gly Leu Gln Glu His His Glu Val His Leu Ile Phe
 20 25 30
 Ala Phe Leu Cys Gln His Val Cys His Leu Gln Cys Leu Thr Glu His
 35 40 45
 Val Gly Pro Ala Met Trp Ala Val Ser Leu Pro Ser Ser Tyr
 50 55 60

<210> 252
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 252

Lys Lys Glu Pro Thr Met Ile Trp Ile Leu Leu Ser Phe Leu Phe Ser
 1 5 10 15
 Gln Met Val Ile Leu Lys Leu Ile Glu Val Val Tyr Arg Val His Ser
 20 25 30
 His Thr Val Arg Lys Arg Gln Ser Gln Gly Leu Asn Ser Ser Ser Leu
 35 40 45
 Thr Ile Glu Pro Ile Phe Leu Ile Thr Ile Gln Tyr Phe Pro Ile Cys
 50 55 60
 Ser Ile Lys Arg Asn His Phe Ser Glu Trp Arg Asn Ile His Glu Asn
 65 70 75 80
 Lys Ser Ile Ile Gln Asp Thr Cys Lys Ala Ser Arg His Ser Arg Phe
 85 90 95
 Arg Leu Leu Ala Pro Trp Pro Arg Leu Ile Thr Phe Gln Glu Asn Lys
 100 105 110
 Thr Thr Tyr Gln Asp
 115

<210> 253
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 253

Thr Phe Ile Lys His Phe Phe Ser Gly Leu Ser Phe Ser Pro Ser Cys
 1 5 10 15
 His Val Ala Ile Ile Ile Phe Thr Ser Ala Ser Ala Tyr Phe Lys Pro
 20 25 30
 His Asn Lys Leu Leu Ala Phe Phe Phe Ala Ile Asp Asn Asn Leu Lys
 35 40 45
 Met Thr Gln Asn Phe Asn Gly Phe Ile Tyr Pro Gln Phe Tyr Asp Phe
 50 55 60
 Arg Ser Ser Phe Leu Cys Val Asp Leu Leu Ile Tyr His Phe Leu Ser
 65 70 75 80
 Thr Ile Thr Ser Phe Asn Leu Ser Cys Ser Thr Gly Leu Leu Thr Ile

85

90

95

Asn Phe Phe Ser Phe Ser Leu Ser Lys Asn His Leu Phe Ser Leu His
 100 105 110

Phe Cys Lys Ile Phe Ser Arg Val Ile Lys Phe Val Thr Ile Phe Phe
 115 120 125

Glu Tyr Phe Lys Asp Leu
 130

<210> 254
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 254

Thr Phe Leu Ser Arg His Phe Leu Met Trp Lys Arg Phe Thr Glu Ser
 1 5 10 15

Asp Thr Phe Lys Gly Leu Thr Arg Asp Ile Cys Cys Leu Cys Leu Leu
 20 25 30

Phe Ser Trp Arg Ser Ala Thr Asn Lys Ala Ser Ser Thr Gln Gly His
 35 40 45

Leu Ser Thr Gly Leu Phe Leu Ser Ser Ser His Asn Leu Ser Cys His
 50 55 60

Thr Ile Thr Ser Thr Thr Ser Leu Gly Pro Cys Ser Glu Pro Thr Phe
 65 70 75 80

Phe Leu Pro Gln Val Gly Ile Ala Ser Ala Pro Tyr Cys Leu His Ser
 85 90 95

Glu Gly Ser Tyr Val His Ala Leu Asn Lys Phe Val Ser Pro Ile Asn
 100 105 110

Val Pro Phe Ala Ser Phe Phe Ser Glu Thr Ser Glu Val Gln Arg Gln
 115 120 125

Pro Leu Pro Ser Ser Arg Cys Ser Thr Tyr
 130 135

<210> 255
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 255

Cys Lys Thr Gly Gly Leu Lys Leu Ile Phe Arg His His Gly Ile Leu
 1 5 10 15

Tyr Arg Leu Ser Leu Tyr Leu Glu Asp Val Arg Leu Met Glu Val Leu
 20 25 30

Ser Ile Leu Phe Pro Leu Leu Ile His Ser Phe Leu Phe Thr Glu Arg
 35 40 45

Leu Asn Phe Leu Ser His Ile Ser Val Leu Leu Ala Pro Leu Phe Phe
 50 55 60

Pro Leu Leu Gln Lys Ser Gln Pro Gln Lys Gln Ser Thr Tyr Cys Glu

65 70 75 80
 Lys Asp Phe Ser Asn His Lys Gly Asp Val Thr Leu Gly Leu Cys Phe
 85 90 95
 Leu Ser His Thr His Lys Ile Leu Asp Met Ser Glu Ile Leu Lys Asn
 100 105 110
 Trp Phe Leu Asn Val Met Lys Arg Val Ser Phe Ser Pro Glu Gln Asn
 115 120 125
 Asn Pro Cys Ser Leu Leu Pro Asp Met Gly Gly Phe Gln Ile Arg Asn
 130 135 140
 Leu Cys Ile Gly Pro Gln Ala Pro Asp Lys Val
 145 150 155

 <210> 256
 <211> 185
 <212> PRT
 <213> Homo sapiens

 <400> 256
 Gly His Arg Pro Ser Phe His Phe Cys Lys Pro Arg Gly Ile Leu Thr
 1 5 10 15
 Asp Ser Thr Thr Tyr Pro Leu Leu Val Leu Ile Glu Glu Asp Thr Gly
 20 25 30
 Leu Lys Pro His Phe Phe Arg Ala Phe Val Cys Ile Ser Lys Ile Leu
 35 40 45
 Phe Tyr Arg His Leu Pro Phe Ser Phe Ile Phe Phe Leu Ser His Asn
 50 55 60
 Asn Ser Ala Phe Leu Leu Tyr Glu Cys Thr Ser Asp Leu Thr Gln Arg
 65 70 75 80
 Ile Gly Gly Gln Thr Asp Cys Leu Leu Ser Val Ser Cys Ala Leu Leu
 85 90 95
 Arg Arg Leu His Leu Ser Ala Asn Ser Ser Cys Thr Thr Phe Ser Asp
 100 105 110
 Phe Cys Cys Val Phe Ser Asp His Leu Leu Gly Ser Gly His Pro Leu
 115 120 125
 Asp Gly Ser Gly Leu Ser Val Ser Val Phe Gly Asn Trp Ser Asp Leu
 130 135 140
 Ala Leu Leu Met Gln Leu Lys Leu Arg Pro Leu Ser Leu Ser Gln Ala
 145 150 155 160
 His Ser Gly Cys Val Arg Phe Leu Leu Ser Leu Val Cys Ile His Pro
 165 170 175
 Leu His Val Gln Val Gly Ala Ala Lys
 180 185

 <210> 257
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 257

His Phe Leu Pro His Ile Leu Glu Leu Val Leu Phe Leu Ile Lys Ile
 1 5 10 15
 Asn Val Ile Phe Arg Gly Ala Ile Phe Cys Phe Gln Asp Phe Phe Lys
 20 25 30
 Glu Val Ile Leu Lys Ala Lys Phe Lys Glu Lys Glu Leu Val Ala Leu
 35 40 45
 Val Asp Pro Val Gly Ser Ser Phe Leu Cys Trp Ser Ile Phe Cys Ile
 50 55 60
 Pro Phe Glu Phe Ala Phe Leu Phe Asn Ile Phe Trp Tyr Ser Arg Phe
 65 70 75 80
 Leu Phe Phe Gly Thr Phe Val His Ile Asn Phe Leu Val Trp Arg Arg
 85 90 95
 Gly Ile Leu Ile Ala Asn Gly Thr Lys Val Tyr Arg Asp Ile Val Gln
 100 105 110
 Pro Leu Leu Phe Phe Leu Phe Leu His Ser Ile Leu Val Met Gly Asn
 115 120 125

<210> 258

<211> 168

<212> PRT

<213> Homo sapiens

<400> 258

Lys Gln Ser Tyr Ile Cys Ile Leu Phe Tyr Ile Tyr Phe Val Ile Phe
 1 5 10 15
 Leu Leu Ser Thr Val Ser Ser Leu Leu Pro Phe Leu Ile Glu Glu Phe
 20 25 30
 Asn Ala Cys Ile Cys Val Phe Ala Lys Lys Thr Pro Ser Ile Thr Cys
 35 40 45
 Ser Ile Tyr Glu Tyr Phe Trp Pro Leu Thr Gln Lys Val Leu Tyr Tyr
 50 55 60
 Arg Gln Lys Ser Thr Arg Lys Gln Ser Gly Thr Ser Ser Lys Arg Asp
 65 70 75 80
 Ser Ile Val Gly Lys Asn Thr Asp Pro Gly Gly Lys Leu Pro Gly Leu
 85 90 95
 Glu Ser Gln Leu Tyr Tyr Phe Gly Lys Thr Thr Tyr Leu Leu Tyr Leu
 100 105 110
 Phe Trp Tyr Pro Cys Leu Asn Gly Ser Asn Asn Asn Pro Leu Ile Ala
 115 120 125
 Leu Leu Gly Phe Asn Arg Ser Glu Asp Phe Arg Arg Ala His Asp Lys
 130 135 140
 Asn Tyr Ile Arg Val Thr Tyr Tyr Cys Tyr Pro Ile Cys His Ser Lys
 145 150 155 160
 Leu Arg Asp Leu Gly Gln Val Thr
 165

<210> 259
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 259

Leu Val Glu Trp Ala His Ser Ser Met Arg Pro Ile Phe His Leu Asn
 1 5 10 15
 Phe Leu Cys Leu Arg Asn Glu Leu Tyr Ser Asn Leu Cys Phe Leu Lys
 20 25 30
 Ile Asn Val Phe Leu Val Lys His Leu Val Ser Ser Gln Ile Leu Phe
 35 40 45
 Lys Lys Thr Thr Glu Asn Ser Glu Glu Gly Glu Thr Asp Ser Ala Asn
 50 55 60
 Ser Ile Ser Val Pro Arg Leu Asn Trp Glu Met Leu Leu Leu His Asp
 65 70 75 80
 Leu Gly Leu Ile Ile Cys Leu Gln Glu His Cys Phe Arg Val Val Trp
 85 90 95
 Tyr Ser Gly Arg Asn Gly Leu Trp Ser Glu Ile His Val Gln Ile Pro
 100 105 110
 Ser His Leu Pro Ser Leu Ile Leu Ser Phe Leu Ile Cys Lys Met Thr
 115 120 125
 Ile Ile Asn Thr Ile Ser Lys Ile Cys Gly Asp Asn Thr Ala Phe Thr
 130 135 140
 Ser Cys Cys Ile Leu Pro Ile Ser Ser Cys Arg Asp Arg Ile Phe His
 145 150 155 160
 Phe Ile Leu Ile Tyr Asn Tyr Val Ile Pro Phe Lys Asn His Pro Ser
 165 170 175
 Thr Phe Ser Ser Thr Arg
 180

<210> 260
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 260

Cys Ser Leu Leu Asp Phe Leu Met Leu Val Gly Ala Leu Arg Lys Leu
 1 5 10 15
 Cys Thr Lys Leu Asp Pro Val Leu Gln Gly Ser Asp Leu Thr Glu His
 20 25 30
 Ser Ala Trp Gly Val Pro Leu Ile Trp Thr Trp Asn Ser Ile Ile Gln
 35 40 45
 Arg Pro Ser Leu Pro Cys Ser Leu Cys Val Thr Gly Ala Ala Glu Thr
 50 55 60
 Gln Val Leu Ser Ala Ser Ala Gly Leu Gln Pro Cys Leu Cys Leu Leu
 65 70 75 80

Arg Ser Asp Ser Asn Cys Tyr Leu Trp Arg Trp Leu Phe Ile Gly Thr
 85 90 95
 Pro Phe Leu Cys Leu Thr Glu Ala Gln Cys Ser Lys Leu Glu Gly Leu
 100 105 110
 Cys Gln His Val Ser His Thr His Leu Leu Leu Phe Phe Ser Arg Val
 115 120 125
 Leu Gly His Leu Leu Leu His Ile Thr Thr Ser Ser Pro Pro Ala Gln
 130 135 140
 Leu Ala Leu Ser Pro Phe Pro Ile Tyr His Ala Val Leu Glu His Lys
 145 150 155 160
 Ala Leu Leu Cys Ile Pro Cys Val Tyr Phe Val Val Met Cys Cys Ile
 165 170 175
 Leu Lys Glu Leu Asn Leu Cys Pro Gly Ser Arg Lys Asn Ala Asp Gln
 180 185 190
 Leu Leu Ala Ile Asp Gly Phe Asn Ile Ser Tyr Asp Trp Phe Leu
 195 200 205
 <210> 261
 <211> 187
 <212> PRT
 <213> Homo sapiens
 <400> 261
 Gln Thr Lys Glu Glu Lys Gly Gln Val Lys His Thr Ile Gly Phe Thr
 1 5 10 15
 Val Asn Met Ser Lys Val Leu Leu Ile Ile His Phe Met Tyr Pro Arg
 20 25 30
 Leu Trp Lys Lys Phe Phe Phe His Leu Pro Ile Lys Asn Ile His Leu
 35 40 45
 Gly Ile Thr Thr Ser Trp Ile Leu Leu Asp Arg His Thr Thr Thr Leu
 50 55 60
 Thr Val Leu Pro Ser Ser Arg Arg Leu Ala Arg Lys Ala His His Pro
 65 70 75 80
 Leu Pro Gly Ser Lys Val Asp Ser Leu Ile Phe Cys Ile Asn Pro Thr
 85 90 95
 Pro Asp Ser Phe Ser Tyr Ser Leu Leu Pro Cys Leu Phe Ser Tyr Leu
 100 105 110
 Met Val Asn Val Phe Leu Ser Ser Cys Ile Thr Phe Tyr Ser Phe Leu
 115 120 125
 Glu His Ile Ile Ile Ile Asn Lys Lys Ser Lys Ile Ala Met Val Ala
 130 135 140
 Arg Ile Pro Ala Pro Leu Asp Pro Ser Thr Ser Ser Ser Pro Gly His
 145 150 155 160
 Thr Trp Gln Arg Glu Ile Lys Val Leu Asp Gly Ile Lys Val Asn Gln
 165 170 175

Leu Thr Leu Lys Gly Glu Lys Glu Ser Arg Leu
 180 185

<210> 262
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 262

Tyr Val Thr Ile Leu Leu Thr Val Leu Val Phe Leu Leu Arg Ser Leu
 1 5 10 15

Pro Phe Gly Ile Arg Trp Ala Leu Ser Thr Gly Ile His Leu Asp Leu
 20 25 30

Glu Val Ile Phe Cys His Val His Leu Val Ser Ile Phe Leu Ser Pro
 35 40 45

Leu Asn Gly Ser Ala Asn Pro Val Ile Tyr Phe Phe Val Gly Ser Phe
 50 55 60

Arg Gln Arg Gln Asn Arg Gln Asn Leu Lys Leu Val Leu Gln Arg Ala
 65 70 75 80

Leu Gln Asp Met Pro Glu Val Lys Val Glu Gly Gly Phe Leu Arg Glu
 85 90 95

Pro Trp Ser Cys Arg Glu Ala Asp Ser Gly Ser Glu Glu Glu Pro Leu
 100 105 110

Pro Cys Gln Ser Asp Gly Thr Leu Arg Ala Ile Leu Pro Cys His Ala
 115 120 125

Gln Leu His Ala Phe Ser Cys Cys Ala Ser Glu Met Ser Gln Arg Leu
 130 135 140

Lys Val Val Glu Met
 145

<210> 263
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 263

His Trp Arg Ser Leu Val Thr Trp Ala Glu Tyr Leu Glu Pro Arg Ile
 1 5 10 15

Ser Ser Ser Met Val Asp Gln Leu Cys Asp Gly Val Met Arg Trp Gly
 20 25 30

Arg Arg Val Trp His His Ala Thr Gly Phe Pro Pro Lys Leu Ser Thr
 35 40 45

Pro Arg Ser Thr Ser Ala Ser Gly Met Ser Ala Gly Ser Gln Arg Leu
 50 55 60

Trp Arg Arg Gly Ser Ser His Ala Val Gln Ser Phe Asn Pro Leu Gln
 65 70 75 80

Ser Ser Leu Ala Arg Glu Gln Gln Ser Leu Leu Glu Arg Asn Tyr His
 85 90 95

Ser Lys Gln Glu Phe Arg Pro His Leu Ser Glu Asp His Val Glu Val
100 105 110

His Leu Ala Gly Lys Val Ala Ser Gly Cys Gly Leu Phe Asn Tyr Thr
115 120 125

Leu Leu Phe Thr Leu Phe Thr Ile Val Cys Lys Val Gln His Leu Gln
130 135 140

Ala Arg Asn Thr Gly Leu Pro His Ser Gly Trp Leu Gly Leu Met Lys
145 150 155 160

Ala Thr Lys Gln Cys Ala Gln Ser Lys Gln Arg Leu Pro Leu Ala Gly
165 170 175

Ala His Ser Pro Arg Glu Gly Ile Ser Phe Ser Leu Asp Leu Gly Ala
180 185 190

Lys Ala Thr His Gly Ser Asp Gln Thr Thr Cys Ser Pro His Leu
195 200 205

<210> 264

<211> 204

<212> PRT

<213> Homo sapiens

<400> 264

Gly Ala Ser Ser Gln Tyr Gly Asn Glu Asp Gly Val Asn Leu Phe Pro
1 5 10 15

Leu Met Ser Pro Pro Leu Tyr Thr Asn Leu Leu Lys Pro Thr Gly Lys
20 25 30

Leu Arg Leu Gly Asn Lys Asn Ile Lys Cys Tyr Val Gln Ile Leu Lys
35 40 45

Trp Asn Leu Lys Leu Leu Val Leu Gln Leu Phe Leu Lys Ile Pro Thr
50 55 60

Leu Ser Arg Ser Met Ser Phe Arg Glu Arg Thr Tyr Val Ala Arg Glu
65 70 75 80

Lys Ser Lys Glu Ser Met Asn Pro Val Leu Leu Ser Ile Leu Gln Cys
85 90 95

Trp Arg Pro Phe Ser Ile Phe His Ser Leu Gly Gln Ser Phe Asn Thr
100 105 110

His Leu Leu Lys Ala Ile Tyr Ile Arg Pro Cys Tyr Ser Lys Gly Thr
115 120 125

Val Gly Gly Glu Glu Arg Gln Asp Pro Thr Met Glu Leu Lys Ser Ser
130 135 140

Leu Asp Arg Phe Pro Phe Pro Ser Gly Gln Ser Lys Pro Asn Asp Thr
145 150 155 160

Thr Val Ser Ser Phe Pro Glu Gln Arg Asp Val Glu Asn Tyr Leu Phe
165 170 175

Thr Ile Val Arg Arg Arg Gln Gly Trp Asn Phe Phe Gln Asn Lys Leu
180 185 190

Phe Phe Phe Val Lys Gln Gly Lys Ile Leu Leu Leu

195

200

<210> 265
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 265

Ile Ser Val Thr Asp Leu Ile Gly Gly Lys Trp Ile Phe Gly His Phe
 1 5 10 15

Phe Cys Asn Val Phe Ser Val Asn Val Met Cys Cys Thr Ala Trp Ile
 20 25 30

Leu Thr Leu Tyr Val Ile Ser Ile Asp Arg Tyr Leu Gly Ile Met Lys
 35 40 45

Pro Leu Thr Tyr Pro Met Arg Gln Lys Gly Lys Cys Met Thr Lys Met
 50 55 60

Ile Leu Ser Val Cys Leu Leu Ser Ala Phe Val Thr Leu Pro Thr Ile
 65 70 75 80

Phe Gly Arg Ala Gln Asn Val Asn Asp Asp Lys Val Cys Leu Val Ser
 85 90 95

Gln Asp Phe Gly Tyr Thr Ile Tyr Ser Thr Ala Leu Ala Ser Ser Pro
 100 105 110

Cys Ala Ser Cys Phe Ser Cys Thr Asn Arg Phe Thr Arg Pro Pro Gly
 115 120 125

Lys Ala Arg Pro Asn Thr Gly Tyr Leu Ala Ser Leu Glu Trp Ser Gln
 130 135 140

Thr Ala Val Val Thr Leu Asn Gly Thr Val Lys Phe Gln Glu Val Glu
 145 150 155 160

Glu Cys Ala Lys Leu Ser Arg Leu Leu Lys His Glu Arg Lys Lys Tyr
 165 170 175

Leu His Leu Ala Glu Thr Glu Ser Ser Asp
 180 185

<210> 266
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 266

Phe Thr Val Ile Asn Val Cys Ser Cys Thr Cys Glu Val Lys Ser Phe
 1 5 10 15

Ser Leu Leu Ser Asn Ser Tyr Val Pro Asn Ile Phe Ser Lys Phe Leu
 20 25 30

Lys Thr Tyr Asn Gly Glu Lys Asn Asn Pro Phe Ser Ser Pro Ala Ser
 35 40 45

Leu Met Lys Asn Ser His Phe Ser Leu Phe Leu Leu Phe Leu Leu Val
 50 55 60

Val Phe His Ile Ser Cys Leu Ser Ala Val Ser Cys Phe Met Gln Phe

65 70 75 80

Arg Pro Tyr Leu Leu Thr Ser Leu Ser Phe Gln Tyr Lys Asp Ser Cys
 85 90 95

Ile Phe Ser Phe Asn Phe Thr Phe Leu Asn Ser Pro Phe Pro Phe Cys
 100 105 110

Asp Pro Gly Ile Ser Gly Val Leu Phe Phe Phe Ile Leu Pro Asp Phe
 115 120 125

Ile Tyr Ile Cys Val Tyr Ser Phe Leu Leu Phe Phe Lys Leu Lys Thr
 130 135 140

Cys Leu Ser Ser Lys Ser Gly Ser Phe Phe Phe Ser Trp Arg Pro Leu
145 150 155 160

Ser Gln Asn Pro Leu Ser Phe Cys Phe Asn Glu Asp Tyr Met Leu Ser
 165 170 175

Leu Trp Leu Pro Ser Cys Asn Thr
 180

<210> 267
<211> 201
<212> PRT
<213> Homo sapiens

<400> 267

Phe Pro Ser Leu Lys Asn Met His Phe Ser Val Pro Leu Arg Cys His
1 5 10 15

Thr Ile Ile Ser Val Gln Lys Arg Val Asn Thr Ala Asp Pro Arg Leu
 20 25 30

Leu Leu Leu Lys Cys Pro Ala Cys Lys Ala Gly Ser Trp Leu Val Phe
 35 40 45

Gly Val Leu Asp Phe Glu Lys Leu Pro Thr Ile Pro Ser Thr Gly Leu
 50 55 60

Cys Lys Tyr Gly Leu Tyr Ile Pro Ala Phe Leu Leu Glu Leu Glu Phe
65 70 75 80

Ser Lys Tyr Glu Ala Lys Arg Ala Tyr Val Thr Ser Pro Gln Pro Trp
 85 90 95

Ala Leu Ser His Gly Thr Ser Leu Ala Gly Ser Val Ser His Val Leu
 100 105 110

Ser Gln Phe Leu Ala Glu Arg Ile Lys His Ile Leu Cys Asn Phe Thr
 115 120 125

Gly Lys Arg Ile Leu Glu Ala Val Pro Gly Phe Phe Arg Leu Phe Leu
 130 135 140

Met His Leu Phe Leu Leu Leu Ile Met Leu Arg Tyr Pro Ser Val Asn
145 150 155 160

Lys Ser Leu Ile Gln Leu Tyr Ala Lys Ser Tyr Glu Ser Gln Asn Arg
 165 170 175

Gly Ile Ile Leu Gly Arg Pro Asp Thr Thr Lys Ile Asn Leu Lys Leu
 180 185 190

Asn Ser Ser Pro Thr Ser Leu Ser Pro
195 200

<210> 268
<211> 321
<212> PRT
<213> Homo sapiens

<400> 268

Met Asn Gln Thr Leu Asn Ser Ser Gly Thr Val Glu Ser Ala Leu Asn
1 5 10 15

Tyr Ser Arg Gly Ser Thr Val His Thr Ala Tyr Leu Val Leu Ser Ser
20 25 30

Leu Ala Met Phe Thr Cys Leu Cys Gly Met Ala Gly Asn Ser Met Val
35 40 45

Ile Trp Leu Leu Gly Phe Arg Met His Arg Asn Pro Phe Cys Ile Tyr
50 55 60

Ile Leu Asn Leu Ala Ala Ala Asp Leu Leu Phe Leu Phe Ser Met Ala
65 70 75 80

Ser Thr Leu Ser Leu Glu Thr Gln Pro Leu Val Asn Thr Thr Asp Lys
85 90 95

Val His Glu Leu Met Lys Arg Leu Met Tyr Phe Ala Tyr Thr Val Gly
100 105 110

Leu Ser Leu Leu Thr Ala Ile Ser Thr Gln Arg Cys Leu Ser Val Leu
115 120 125

Phe Pro Ile Trp Phe Lys Cys His Arg Pro Arg His Leu Ser Ala Trp
130 135 140

Val Cys Gly Leu Leu Trp Thr Leu Cys Leu Leu Met Asn Gly Leu Thr
145 150 155 160

Ser Ser Phe Cys Ser Lys Phe Leu Lys Phe Asn Glu Asp Arg Cys Phe
165 170 175

Arg Val Asp Met Val Gln Ala Ala Leu Ile Met Gly Val Leu Thr Pro
180 185 190

Val Met Thr Leu Ser Ser Leu Thr Leu Phe Val Trp Val Arg Arg Ser
195 200 205

Ser Gln Gln Trp Arg Arg Gln Pro Thr Arg Leu Phe Val Val Val Leu
210 215 220

Ala Ser Val Leu Val Phe Leu Ile Cys Ser Leu Pro Leu Ser Ile Tyr
225 230 235 240

Trp Phe Val Leu Tyr Trp Leu Ser Leu Pro Pro Glu Met Gln Val Leu
245 250 255

Cys Phe Ser Leu Ser Arg Leu Ser Ser Ser Val Ser Ser Ser Ala Asn
260 265 270

Pro Val Ile Tyr Phe Leu Val Gly Ser Arg Arg Ser His Arg Leu Pro
275 280 285

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Thr Arg Ser Leu Gly Thr Val Leu Gln Gln Ala Leu Arg Glu Glu Pro
 290 295 300

Glu Leu Glu Gly Gly Glu Thr Pro Thr Val Gly Thr Asn Glu Met Gly
 305 310 315 320

Ala

<210> 269
 <211> 9
 <212> PRT
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 269

Ala Pro Arg Thr Pro Gly Gly Arg Arg
 1 5

<210> 270
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 270
 ctgtctctct gtcctcctcc 20

<210> 271
 <211> 22
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 271
 gcaccgatct tcattgaatt tc 22

<210> 272
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 272
 gatcaagctt ggatgaacca gactttgaat agc 33

<210> 273
 <211> 31
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

00100US1.ST25

<400> 273

gacccctcgag ctcaagcccc catctcattg g

31